

5in/100ft Measured Depth
Real Time, Composite Log

Company: SRC Energy Inc

Well: Bost Farm 32N-11B-L

Field: Wattenberg

County: Weld

State: Colorado

Country: United States of America

Latitude: 40° 24' 50.947" N APIN: 05-123-50258

Longitude: 104° 49' 42.888" W Rig Name: Precision Drilling 462

Rig Type: Land Rig - Top Drive

FL: NAD83 Colorado State Plane, Northern Zone, US Feet

FL1: Northing: 1394423.722 ftUS

FL2: Easting: 3186956.601 ftUS

Log Measured From: - Drill Floor: 4893.00 ft

Ground Level: 4873.00 ft

Permanent Datum: - Mean Sea Level

Acquisition Dates: 28-Aug-2019 -- 02-Sep-2019

Log Interval: 1761.00(ft)MD -- 17643.00(ft)MD

Index Types: Measured Depth

Index Scales: 1:240 5" / 100'

Depth Source: Driller's Depth

Depth Sensor: 3rd Party Depth

Print Type: Final

Spud Date: 26-Aug-2019

Other Services:

Directional Drilling

Direction and Inclination (Surveys)

Continuous D&I

Rotary Steerable System

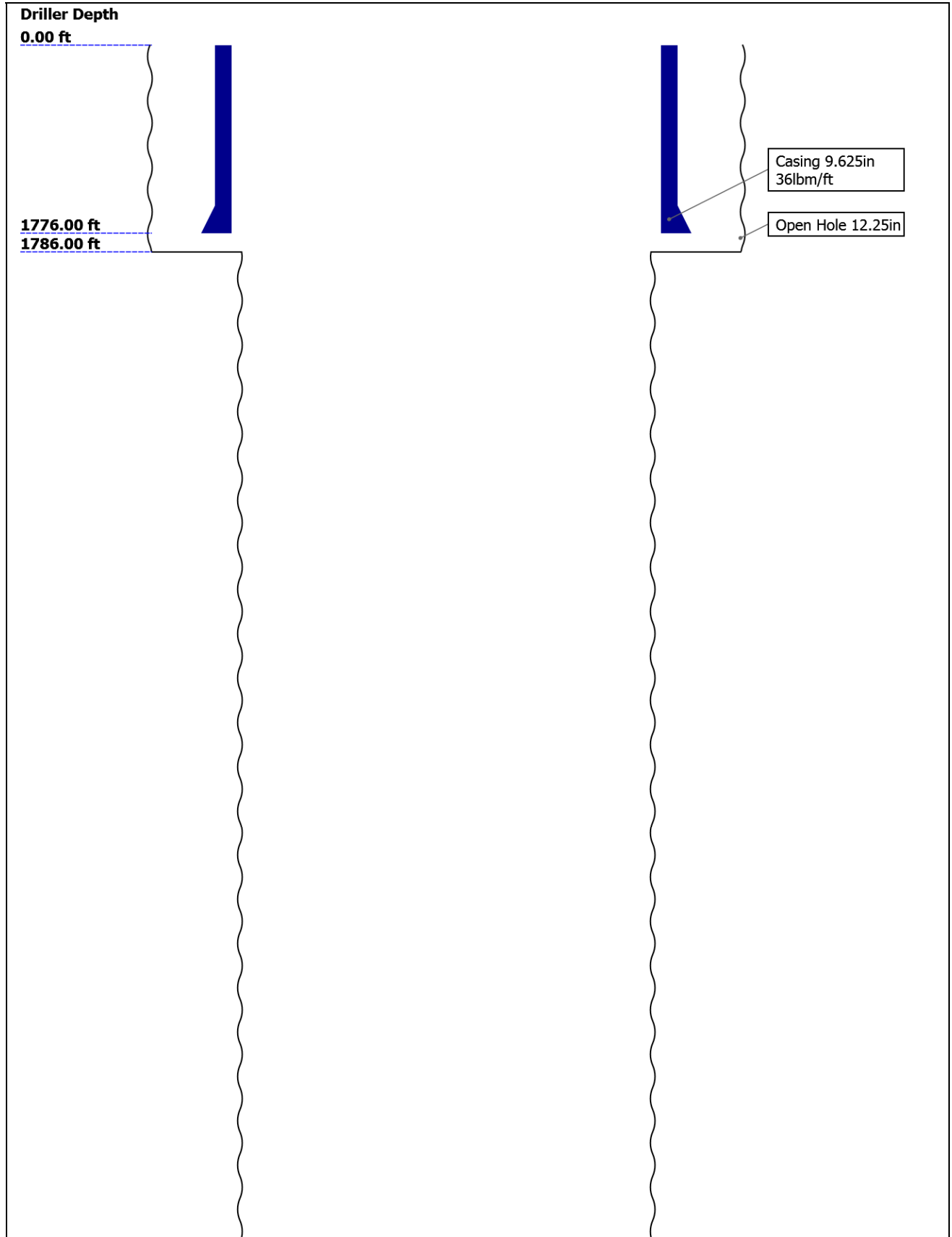
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Well Sketch





Borehole Size/Casing Record

Bit						
Bit Size (in)	12.25	8.5				
Top Driller (ft)	0	1786				
Bottom Driller (ft)	1786	17668				
Casing						
Size (in)	9.625					
Weight (lbm/ft)	36					
Inner Diameter (in)	8.921					
Grade	J55					
Top Driller (ft)	0					
Bottom Driller (ft)	1776					

Operational Run Summary

Parameter (unit)	Run001	Run002	Run003			
Date Log Started	28-Aug-2019	29-Aug-2019	30-Aug-2019			
Time Log Started	10:50:29	06:13:00	21:15:31			
Date Log Finished	29-Aug-2019	30-Aug-2019	02-Sep-2019			
Time Log Finished	06:12:55	20:14:25	16:02:27			
Bit Size (in)	8.500	8.500	8.500			
Bit Start Depth (ft)	1786.00	4461.00	10178.00			
Bit Stop Depth (ft)	4461.00	10178.00	17668.00			
Top Log Interval (ft)	1761.00	4436.00	10153.00			
Bottom Log Interval (ft)	4436.00	10153.00	17643.00			
Max Hole Deviation (deg)	10.52	91.69	91.79			
Azimuth of Max Deviation (deg)	252.28	269.44	271.43			
Logging Unit Number	Client Provided	Client Provided	Client Provided			
Logging Unit Location	Zone 2	Zone 2	Zone 2			
Recorded By	B.Holmgren	B.Holmgren	B.Holmgren			
Witnessed By	D.Goldfarb	D.Goldfarb	D.Goldfarb			
Service Order Number	19CCO1057	19CCO1057	19CCO1057			

Borehole Fluids

Parameter(unit)	Run001	Run002	Run003			
Fluid Type	Oil	Oil	Oil			
Fluid Name	Diesel	Diesel	Diesel			
Max Recorded Temperatures (degF)	151	238	271			
Source of Sample	Active Tank	Active Tank	Active Tank			
Salinity (ppm)	282681	285840	296923			
Density (lbm/gal)	9.9	10	10.3			
Funnel Viscosity (s)	56	55	50			
Fluid Loss (cm3)	70.21	284	181.03			
PH						
Source RMF	Pressed	Pressed	Pressed			
RMC	Pressed	Pressed	Pressed			
RM @ Meas Temp (ohm.m@degF)	N/A	N/A	N/A			
RMF @ Meas Temp (ohm.m@degF)	N/A	N/A	N/A			
RMC @ Meas Temp (ohm.m@degF)	N/A	N/A	N/A			
RM @ BHT (ohm.m@degF)	N/A	N/A	N/A			
RMF @ BHT (ohm.m@degF)	N/A	N/A	N/A			
RMC @ BHT (ohm.m@degF)	N/A	N/A	N/A			
Electricity Stability (V)	1062	1238	1235			
Oil/Water	88/12 (7.26)	87/13 (6.58)	86/14 (6.14)			
Total Solid (%)	13	13	14.5			
High Gravity Solids (%)	6.15	6.73	7.23			

Remarks and Equipment Summary

All data presented is from realtime data and acquired while drilling.

Depth is referenced to driller's depth.

Gamma Ray is environmentally corrected for mud weight, bit size, and collar thickness.

Barite was present in the mud.

Run001: Remarks	Run002: Remarks	Run003: Remarks
Run Objective: Drill curve and lateral to TD.	Run Objective: Drill curve and lateral to TD.	Run Objective: Drill lateral to Well TD.
Reason for POOH: Powerdrive failure.	Reason for POOH: Motor failure.	Reason to POOH: Well Total Depth.
Drill Interval: 1786 ft MD to 4461 ft MD.	Drill Interval: 4461 ft MD to 10178 ft MD.	Drill Interval: 10178 ft MD to 17668 ft MD.
Logged Interval: 1761 ft MD to 4436 ft MD.	Logged Interval: 4436 ft MD to 10153 ft MD.	Logged Interval: 10153 ft MD to 17643 ft MD.
MWD Personnel: B. Holmgren D. Goldfarb	MWD Personnel: B. Holmgren D. Goldfarb	MWD Personnel: B. Holmgren D. Goldfarb

Run001: Toolstring				Run002: Toolstring				Run003: Toolstring			
Equip name	Length	MP name	Offset	Equip name	Length	MP name	Offset	Equip name	Length	MP name	Offset
Filtr Sub: 6 3/4":SD 117870	121.88	Diffuser Sub		Filtr Sub: 6 3/4":SD 117870	121.43	Diffuser Sub		Filtr Sub: 6 3/4":SD 117870	121.86	Diffuser Sub	
Motor: 6 3/4":7089	112.3	Hunting		Motor: 6 3/4":7089	111.85	Hunting		Motor: 6 3/4":7082	112.28	Hunting	

Flex DC: 6 3/4":SD 73.77
56484

Archer Flex Pony

XEM650:XLE0202 42.2

GAP650:DOBA2278
XEM650DC:XLE0202
DPG:DDRP024
XHOP:XHOP1034
XTX:HVTX0938
DYN:SOCD1316
BAT:DOBA2201
XGM:XGM0763
DNI:SOCD1316

INT PRES
ANN PRES
TEMP

39.79
39.64
39.64

GR

24.98

D&I

20.4

Flex DC: 6 3/4":SD 73.32
56484

Archer Flex Pony

XEM650:XLE0202 41.75

GAP650:DOBA2278
XEM650DC:XLE0202
DPG:DDRP024
XHOP:XHOP1034
XTX:HVTX0938
DYN:SOCD1316
BAT:DOBA2201
XGM:XGM0763
DNI:SOCD1316

INT PRES
ANN PRES
TEMP

39.34
39.19
39.19

GR

24.53

D&I

19.95

Flex DC: 6 3/4":SD 73.75
56484

Archer Flex Pony

XEM650:XLE0103 41.75

GAP650:DOBA2539
XEM650DC:XLE0103
DPG:DDRP049
XHOP:XHOP1034
XTX:HVTX0992
DYN:SOCD1314
BAT:DOBA2312
XGM:XGM0807
DNI:SOCD1314

INT PRES
ANN PRES
TEMP

39.34
39.19
39.19

GR

24.53

D&I

19.95

PDCOPIBANA_675: 7.84

EXP-020

PD675CC:EXP-020

Gamma Set

Impeller Set

PDCU

PDCOPIBANA675BU:E

XP-020

Azimuth 8.04

D&I 5.84

GR 5.04

Anchor Bolt 2.64

Bit: 8 1/2":JP3790 0.6

Smith

TOOL_ZERO

Lengths are in ft

Maximum Outer Diameter = 8.500 in

Line: Sensor Location, Value: Gating Offset

All measurements are relative to TOOL_ZERO

PDCOPIBANA_675: 7.39

ENP-059

PD675CC:ENP-059

PDCU

Gamma Set

Impeller Set

PDCOPIBANA675BU:E

NP-059

Azimuth 8.04

D&I 5.84

GR 5.04

Anchor Bolt 2.64

Bit: 8 1/2":JP7445 0.6

Smith

TOOL_ZERO

Lengths are in ft

Maximum Outer Diameter = 8.500 in

Line: Sensor Location, Value: Gating Offset

All measurements are relative to TOOL_ZERO

PDCOPIBANA_675: 7.39

ENP-059

PD675CC:ENP-059

Gamma Set

Impeller Set

PDCU

PDCOPIBANA675BU:E

NP-059

Azimuth 8.04

D&I 5.84

GR 5.04

Anchor Bolt 2.64

Bit: 8 1/2":JP7445 0.6

Smith

TOOL_ZERO

Lengths are in ft

Maximum Outer Diameter = 8.500 in

Line: Sensor Location, Value: Gating Offset

All measurements are relative to TOOL_ZERO

Well Composite

Software Version

Acquisition System

Maxwell 2018 SP2

Version

8.2.104493.3100

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run001	Drilling	Down	1785.17 ft	4461.50 ft	28-Aug-2019 10:50:29 AM	29-Aug-2019 6:12:55 AM	No
Run002	Drilling	Down	4460.92 ft	10178.67 ft	29-Aug-2019 6:13:00 AM	30-Aug-2019 8:14:25 PM	No
Run003	Drilling	Down	10177.92 ft	17668.08 ft	30-Aug-2019 9:15:31 PM	02-Sep-2019 4:02:27 PM	No

All depths are referenced to toolstring zero

Log

Company:SRC Energy Inc

Well:Bost Farm 32N-11B-L

Well Composite:S167

Description: Extreme Gamma Ray 1 RT Format: Log (Extreme Gamma Ray 1 RT) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
05-Sep-2019 15:09:26

GRM1 - Gamma Ray Extreme[1] RT

True Vertical Depth (TVD) RT		
7500	ft	1500

Gamma Ray (GRM1) Extreme[1] RT		
0	API	200

Rate of penetration averaged over the last 5 ft
(1.5 m) (ROP5) RT

1000 ft/h 0

Gamma Ray Time after Bit (TAB_GR)
Extreme[1]

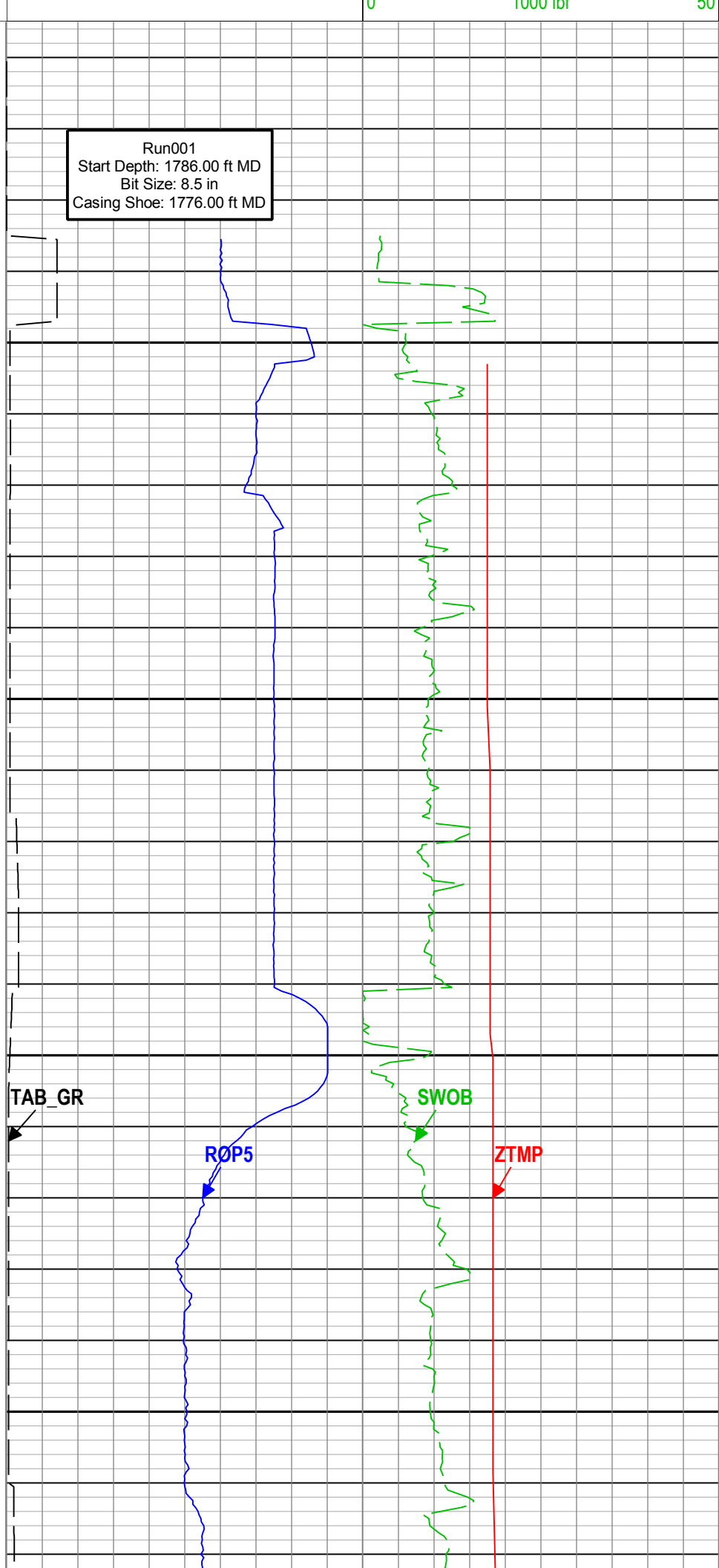
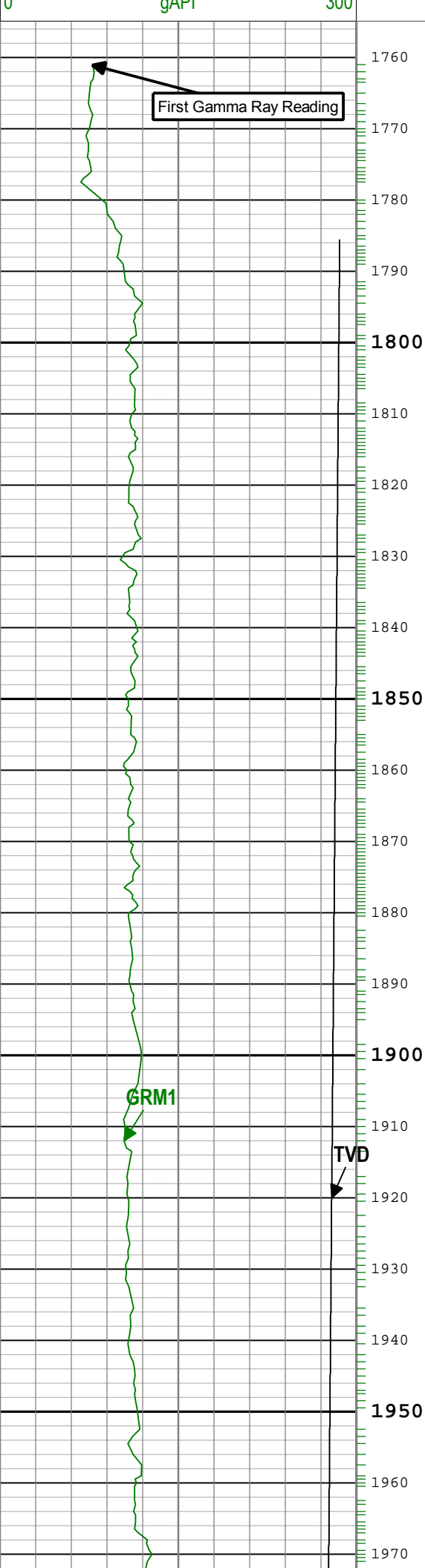
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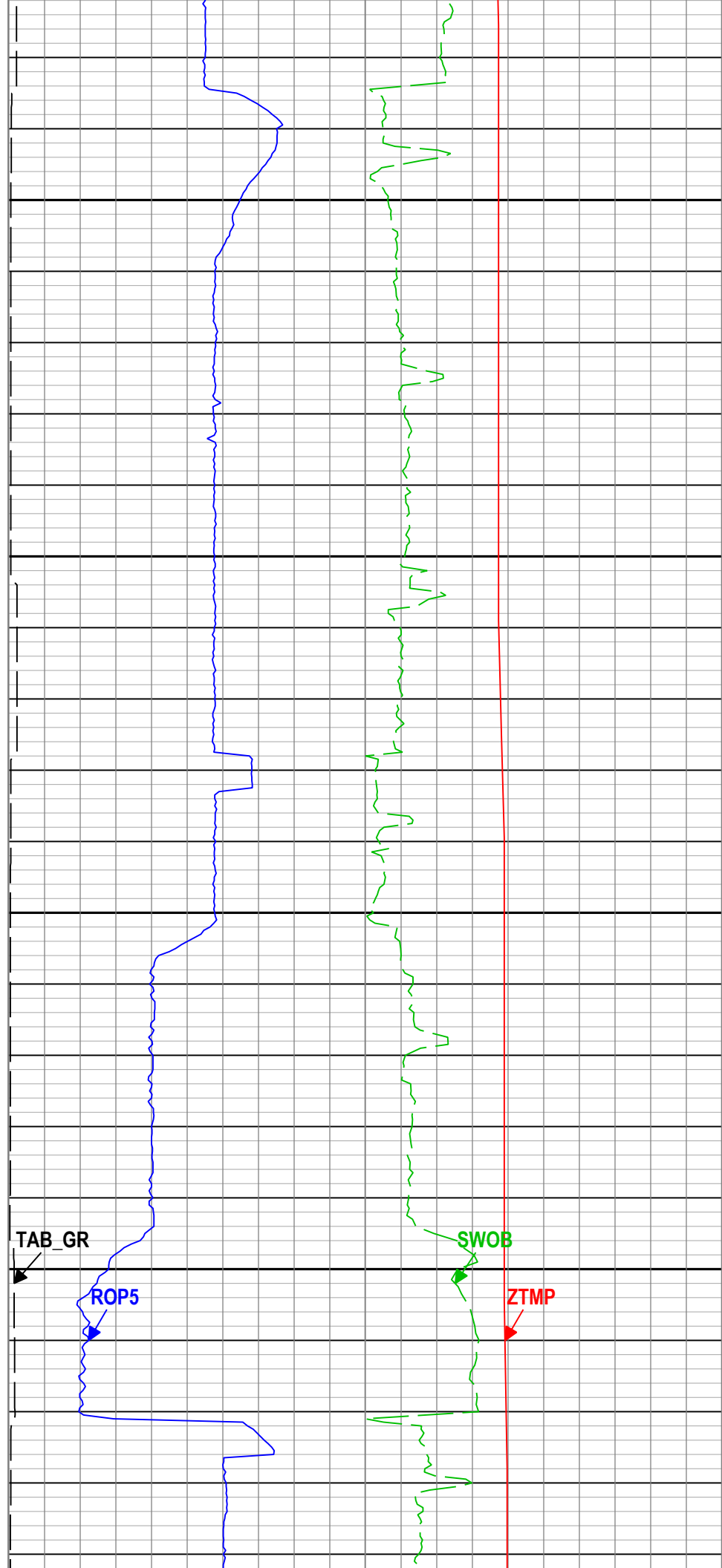
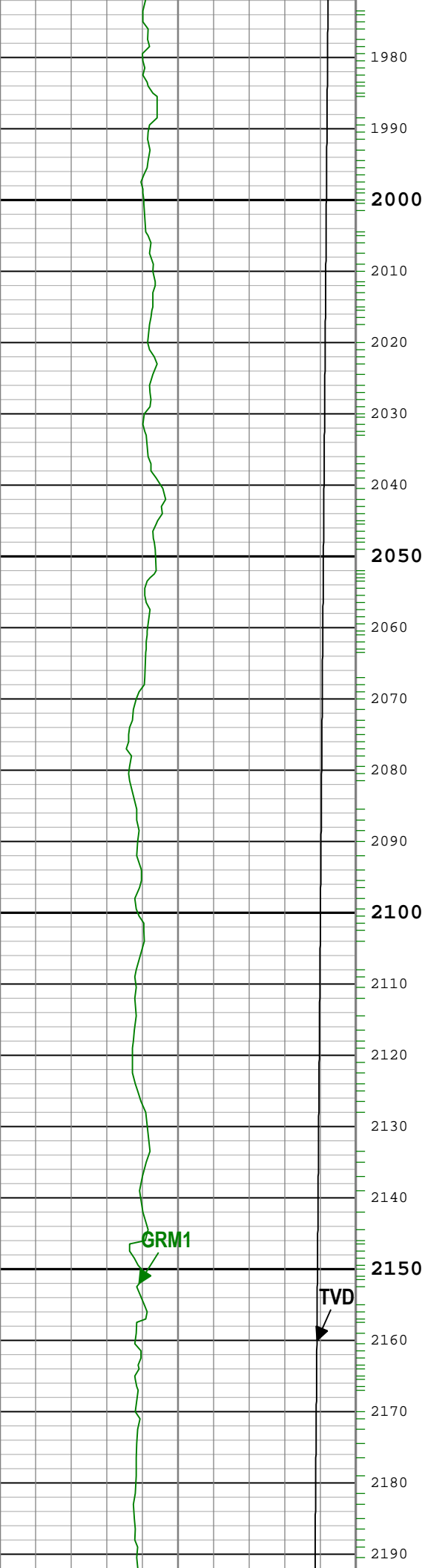
Cartridge Temperature (ZTMP) Extreme[1] RT

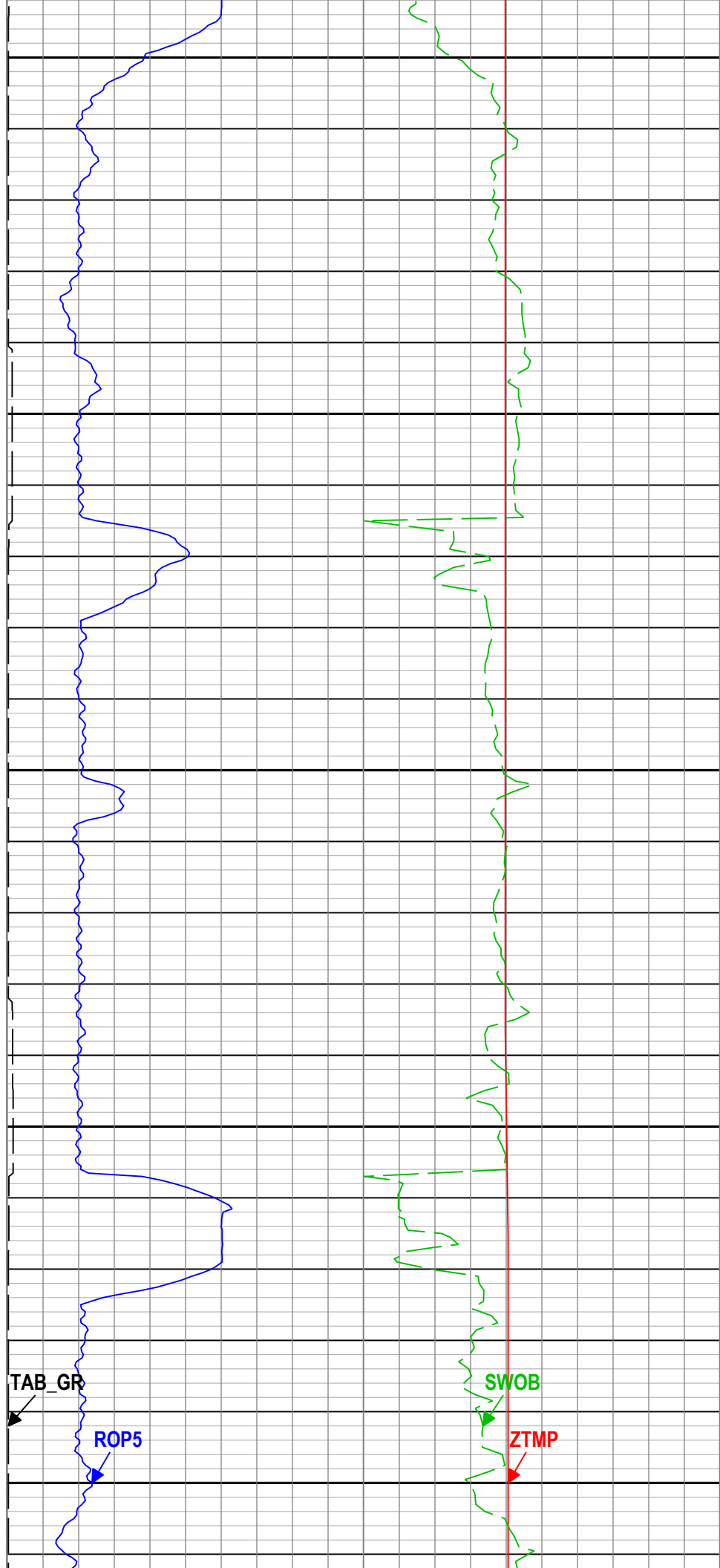
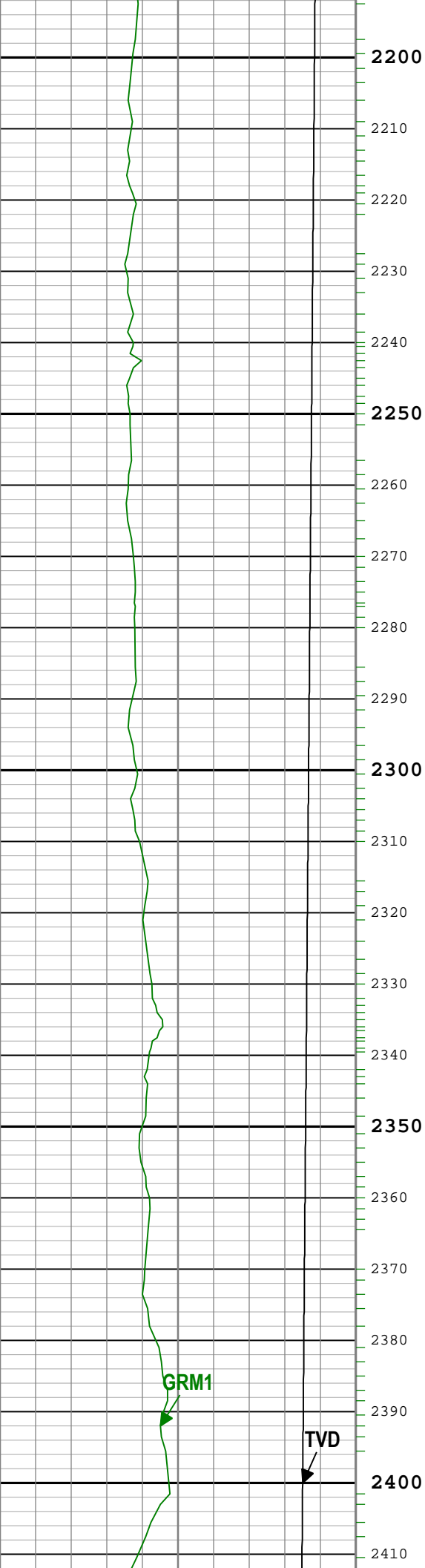
0 degF 300

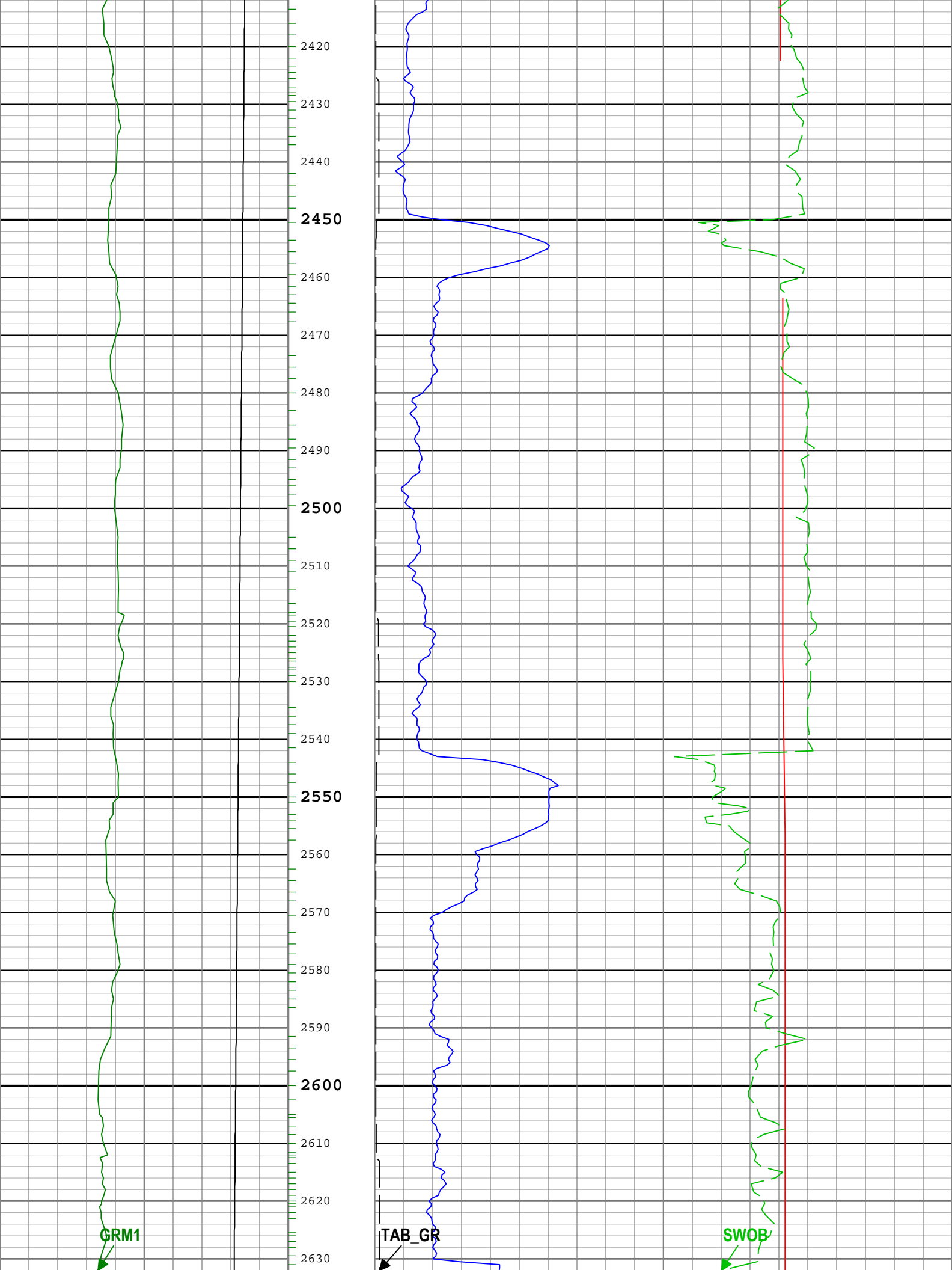
Surface Weight On Bit (SWOB) RT

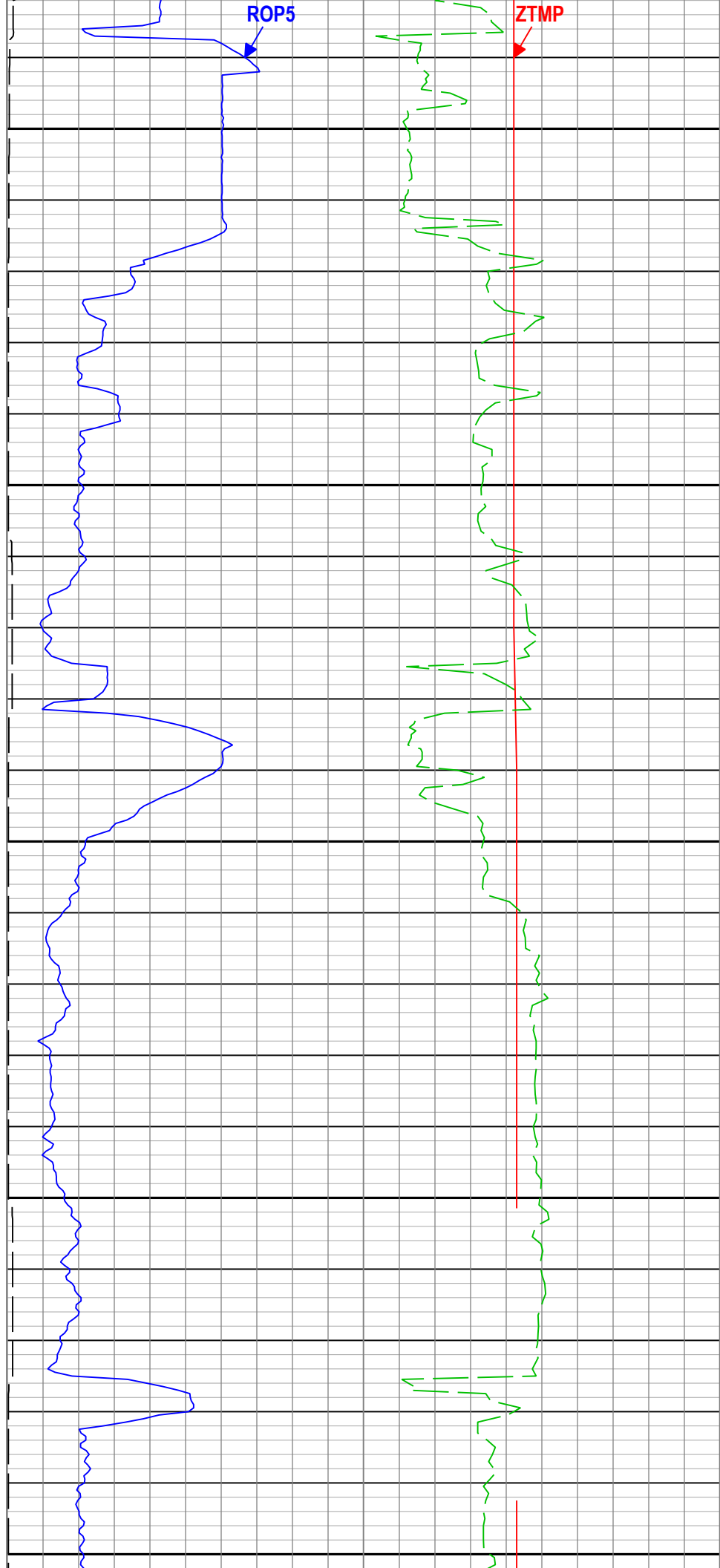
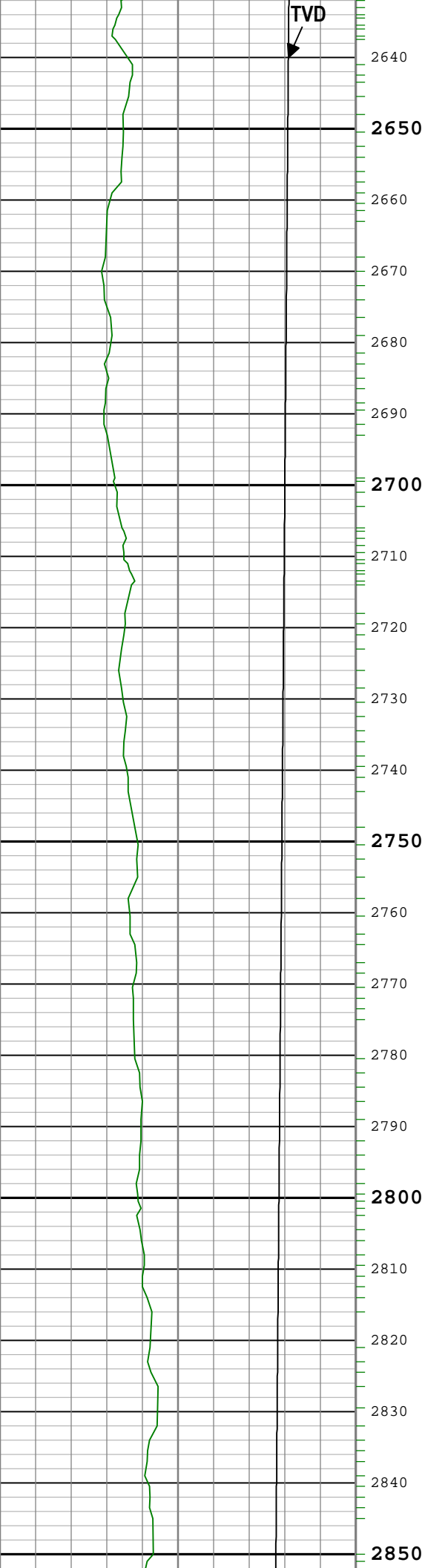
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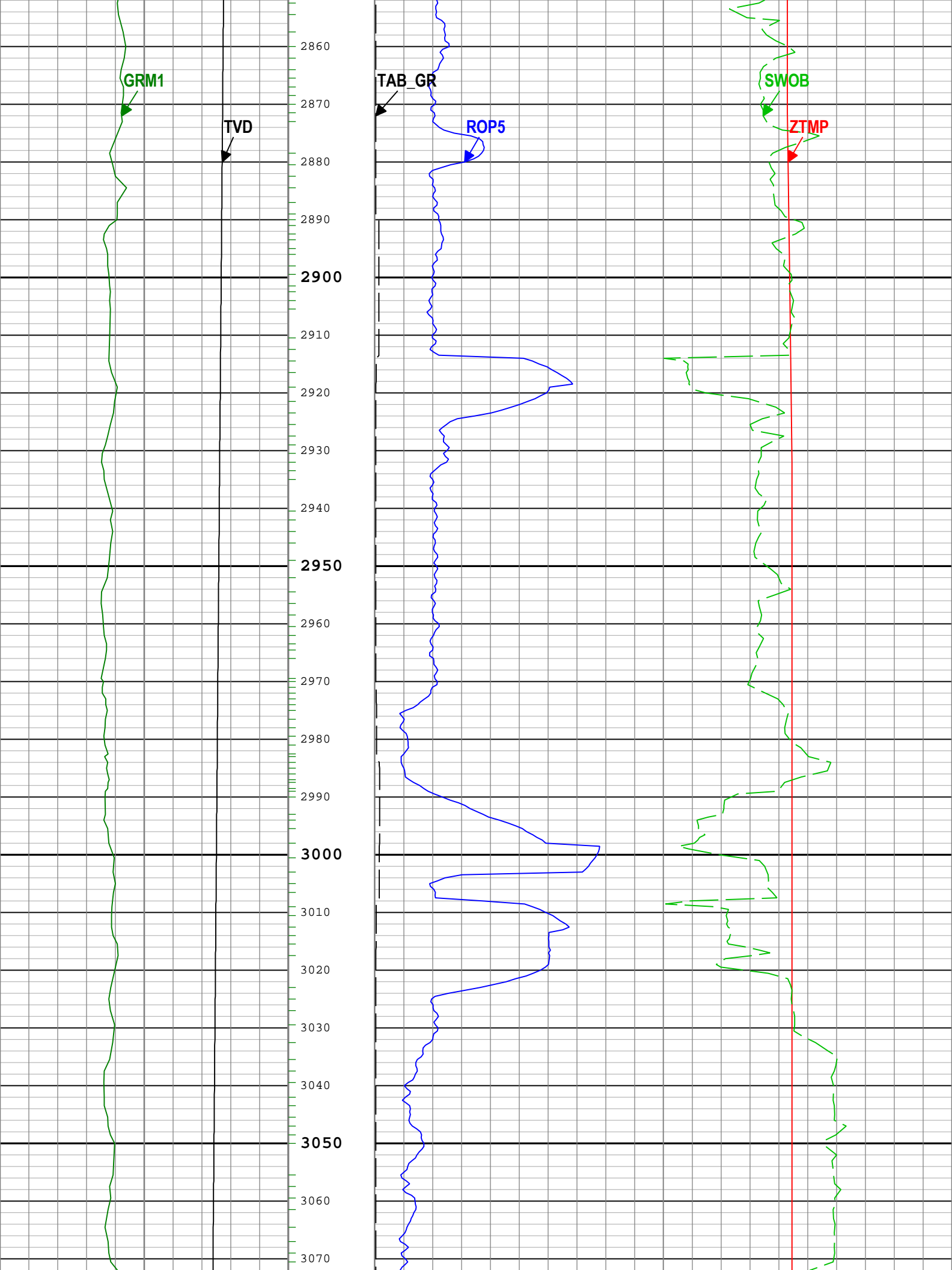


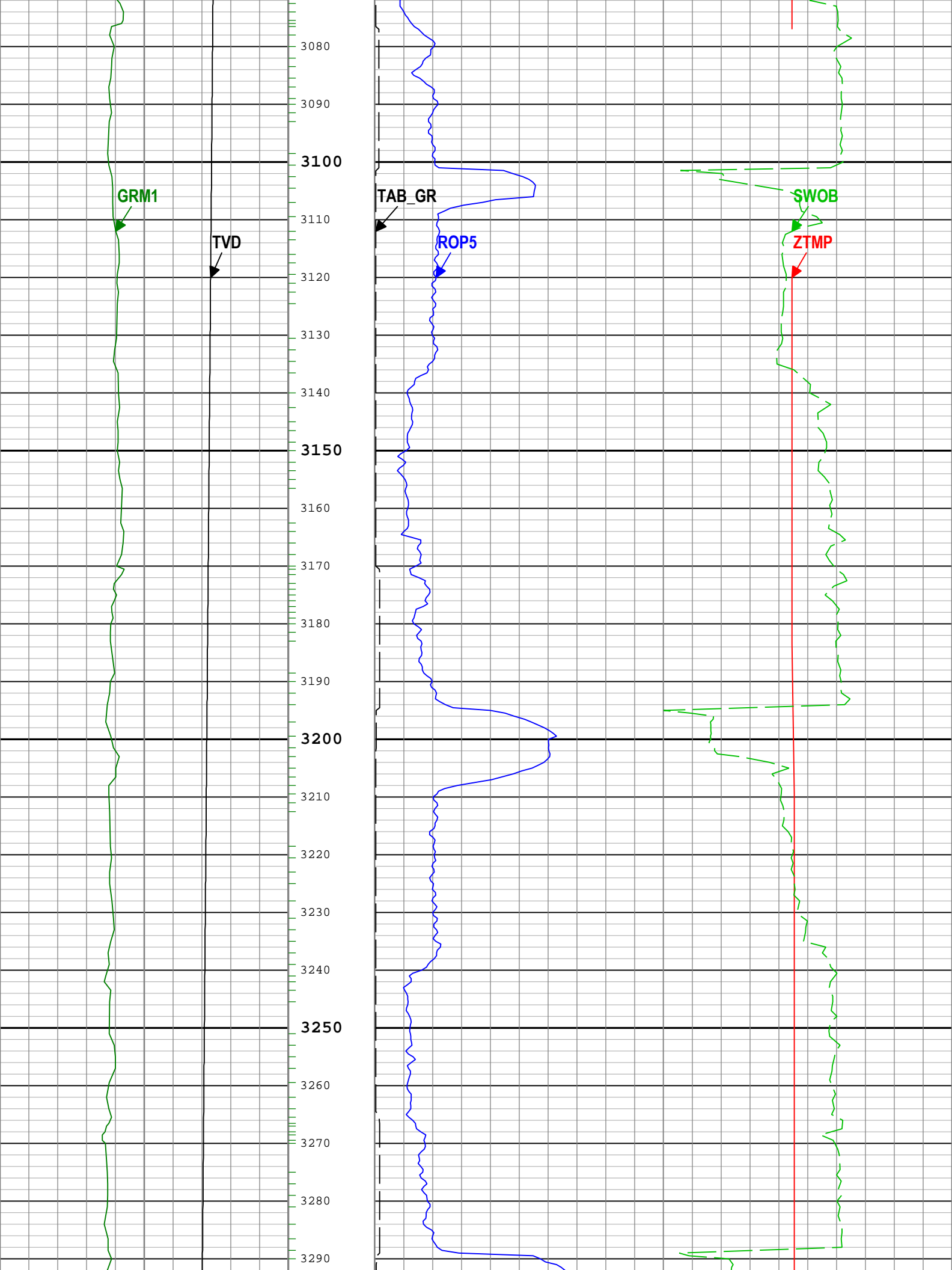


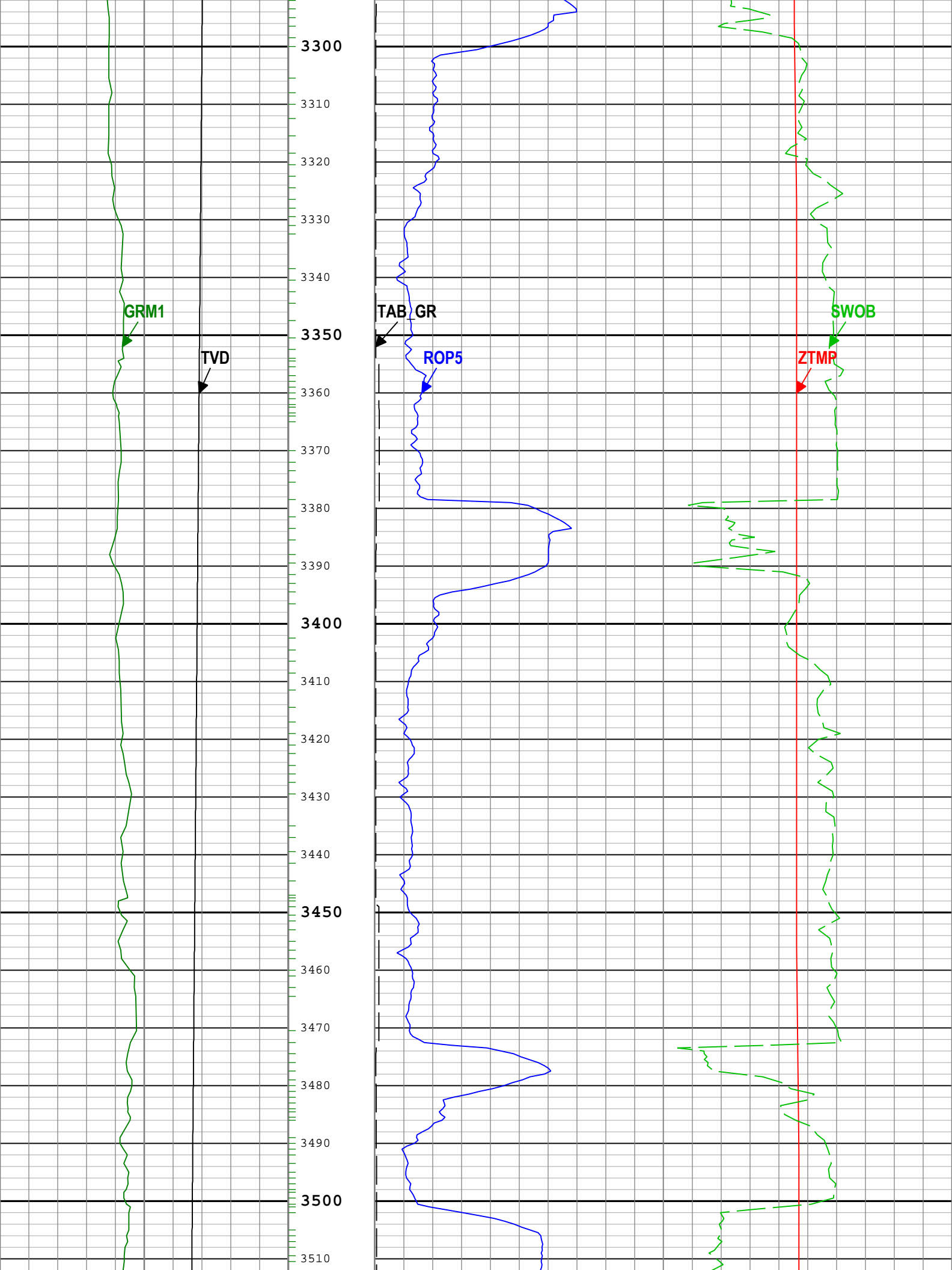


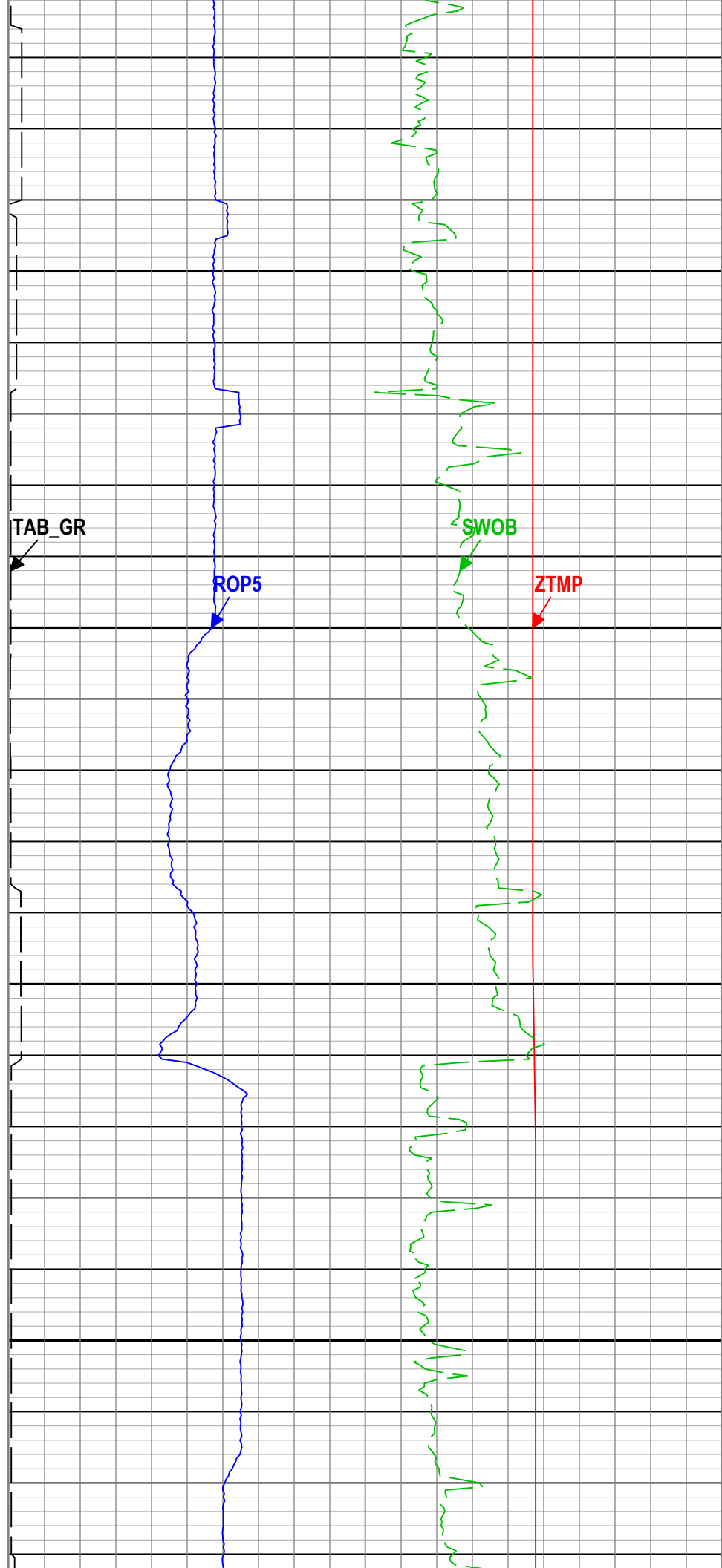
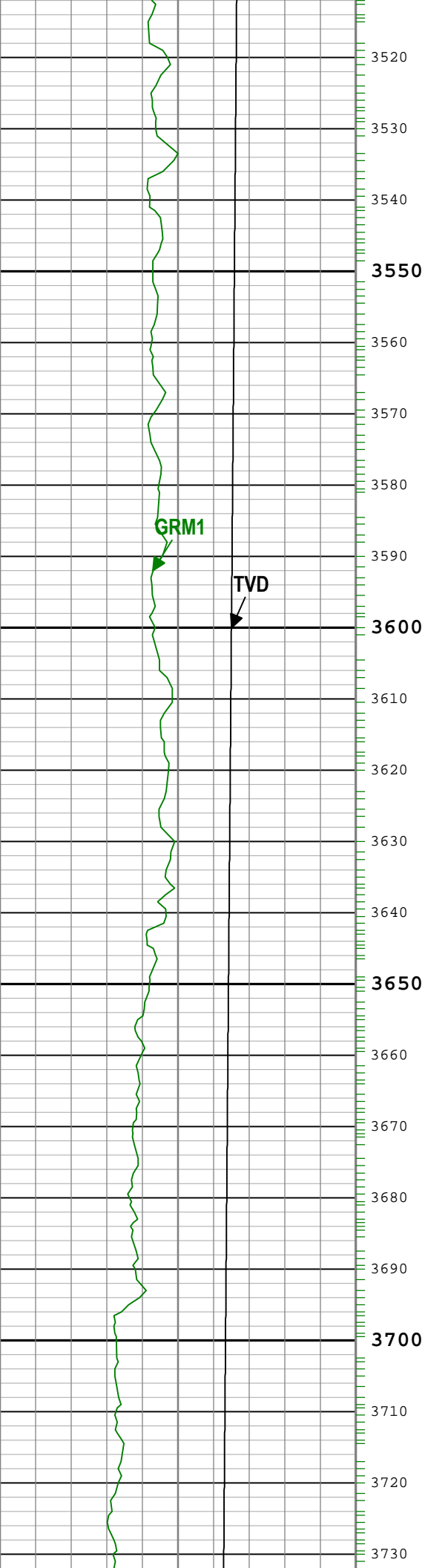


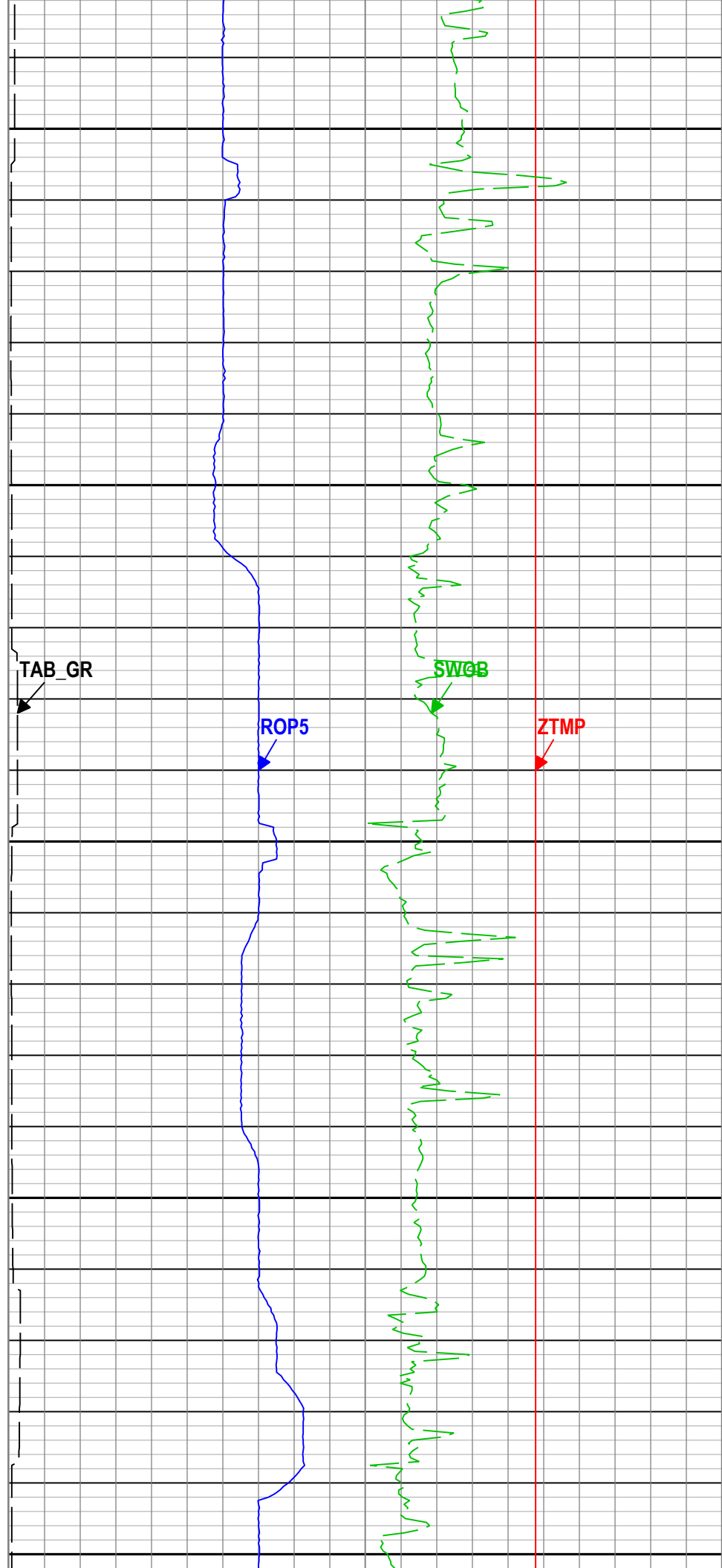
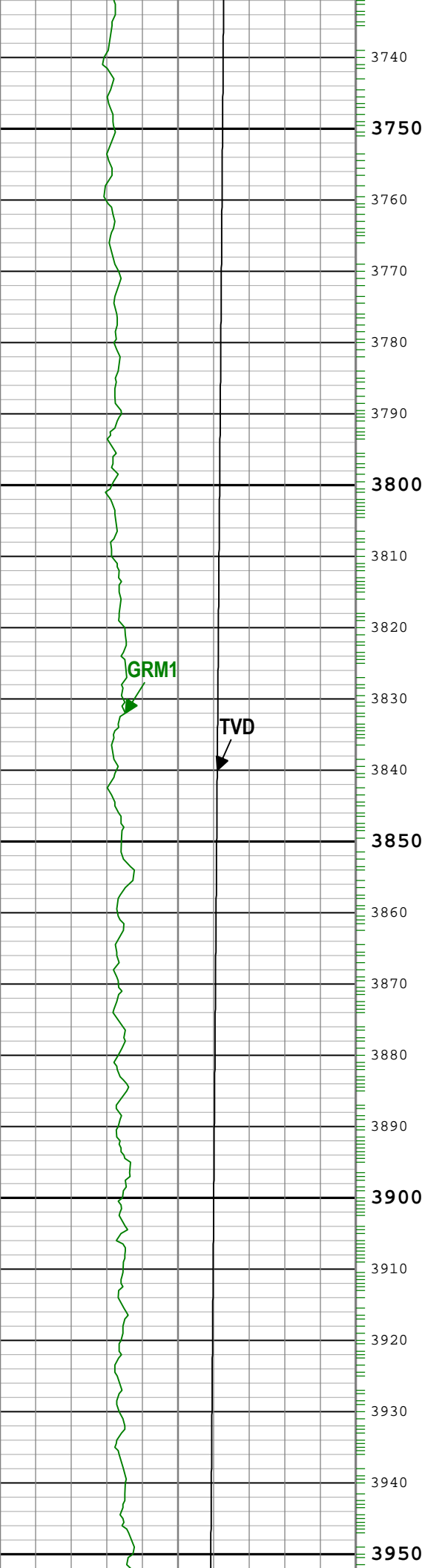


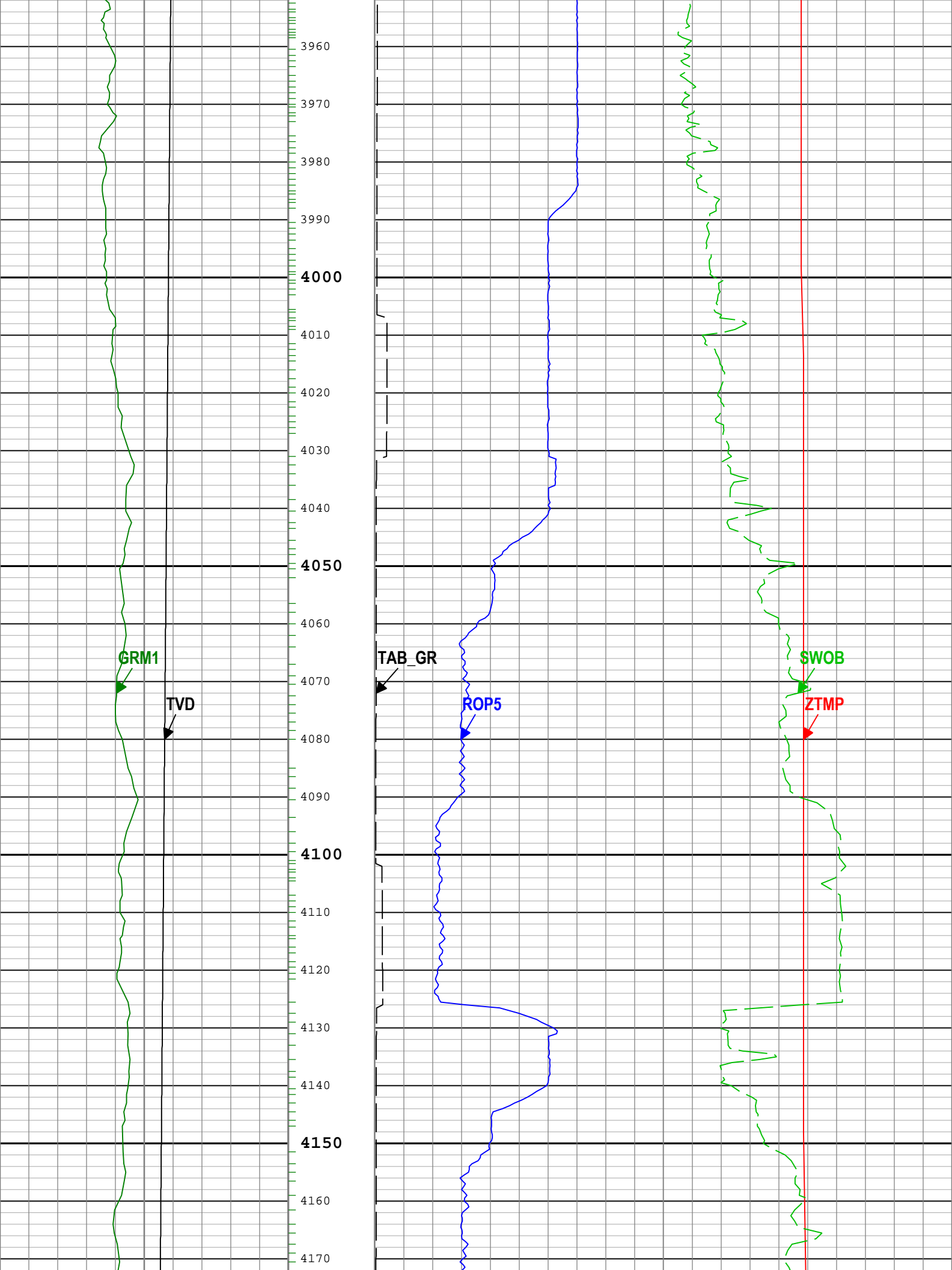


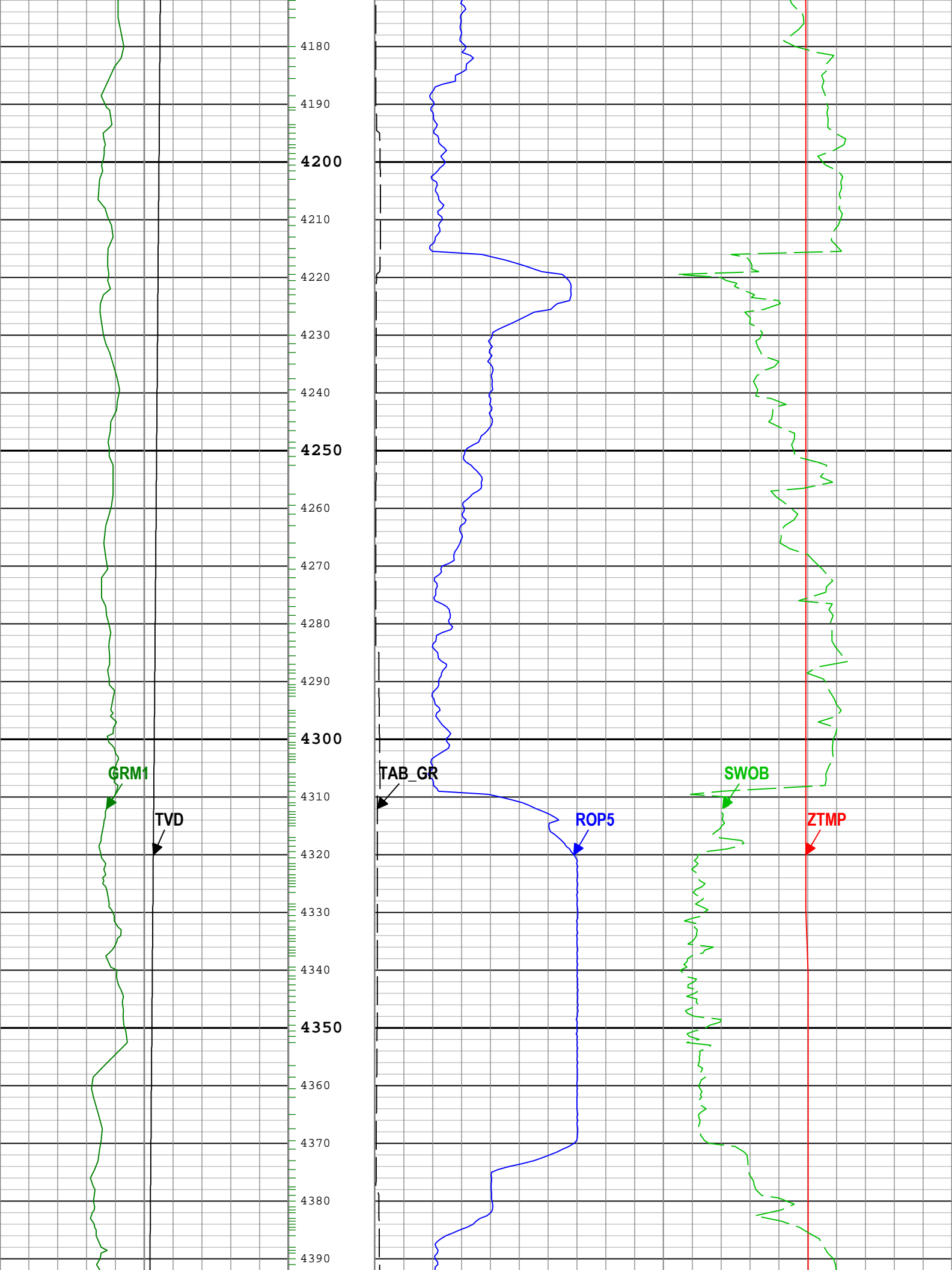


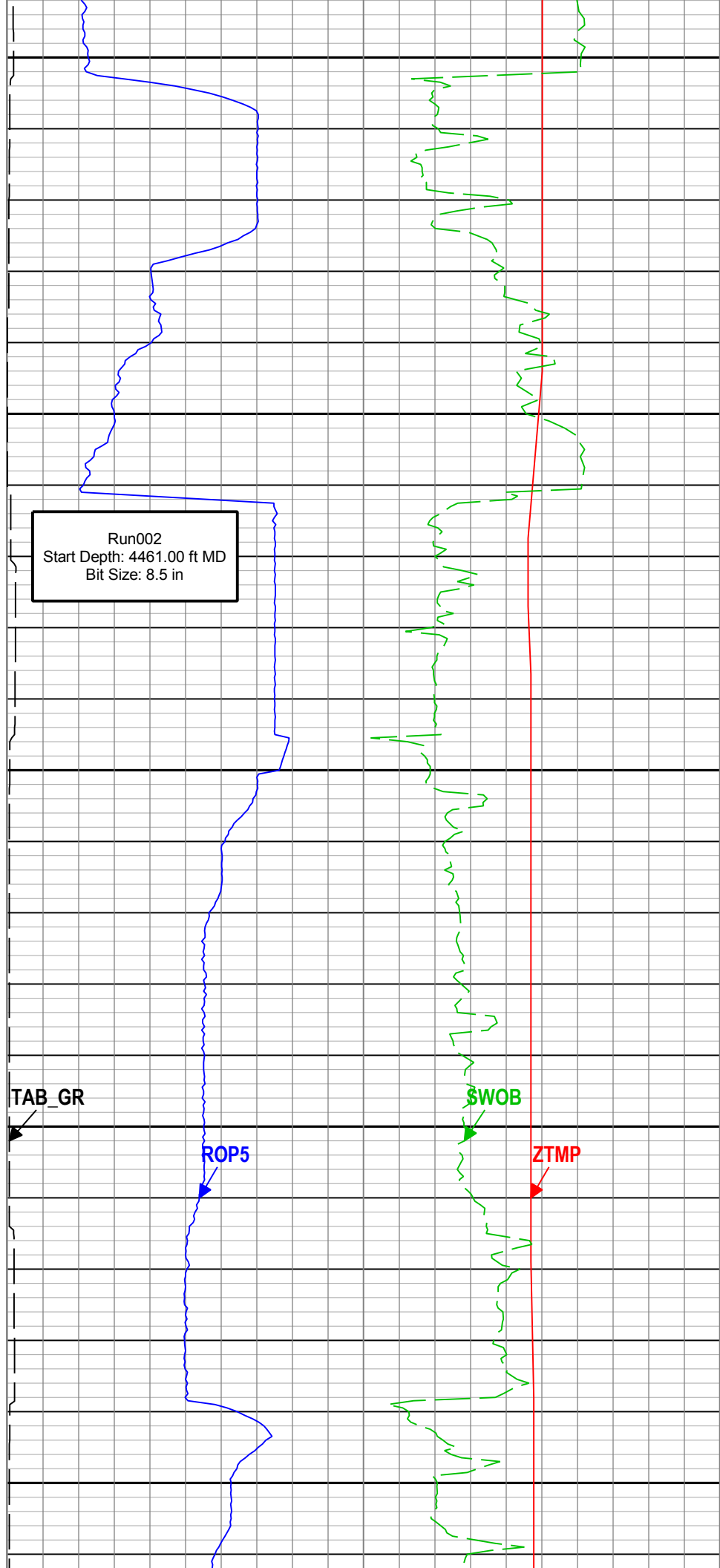
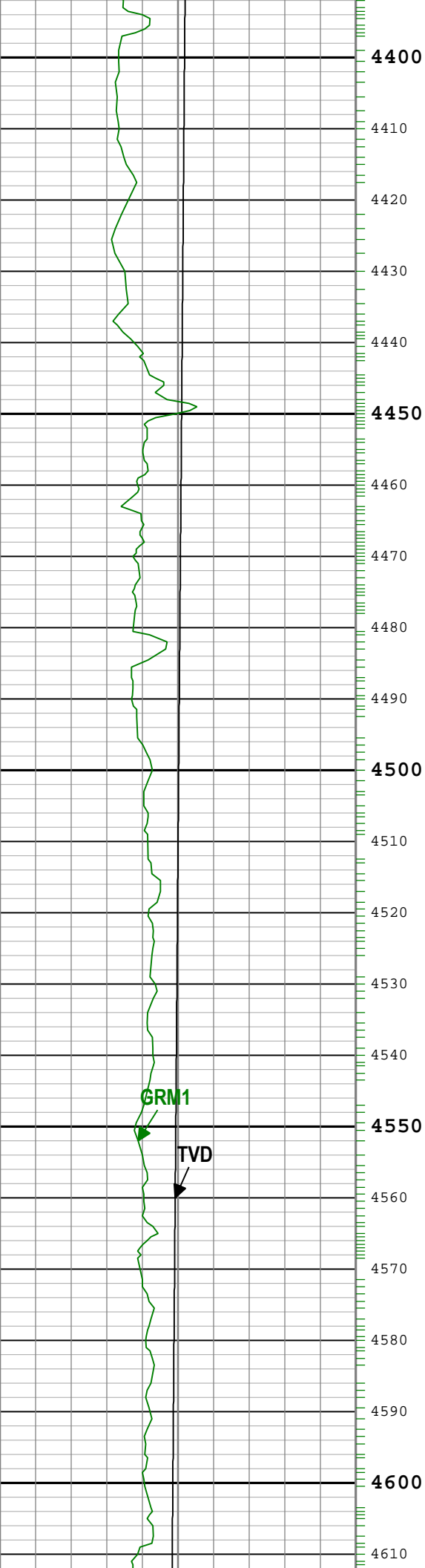


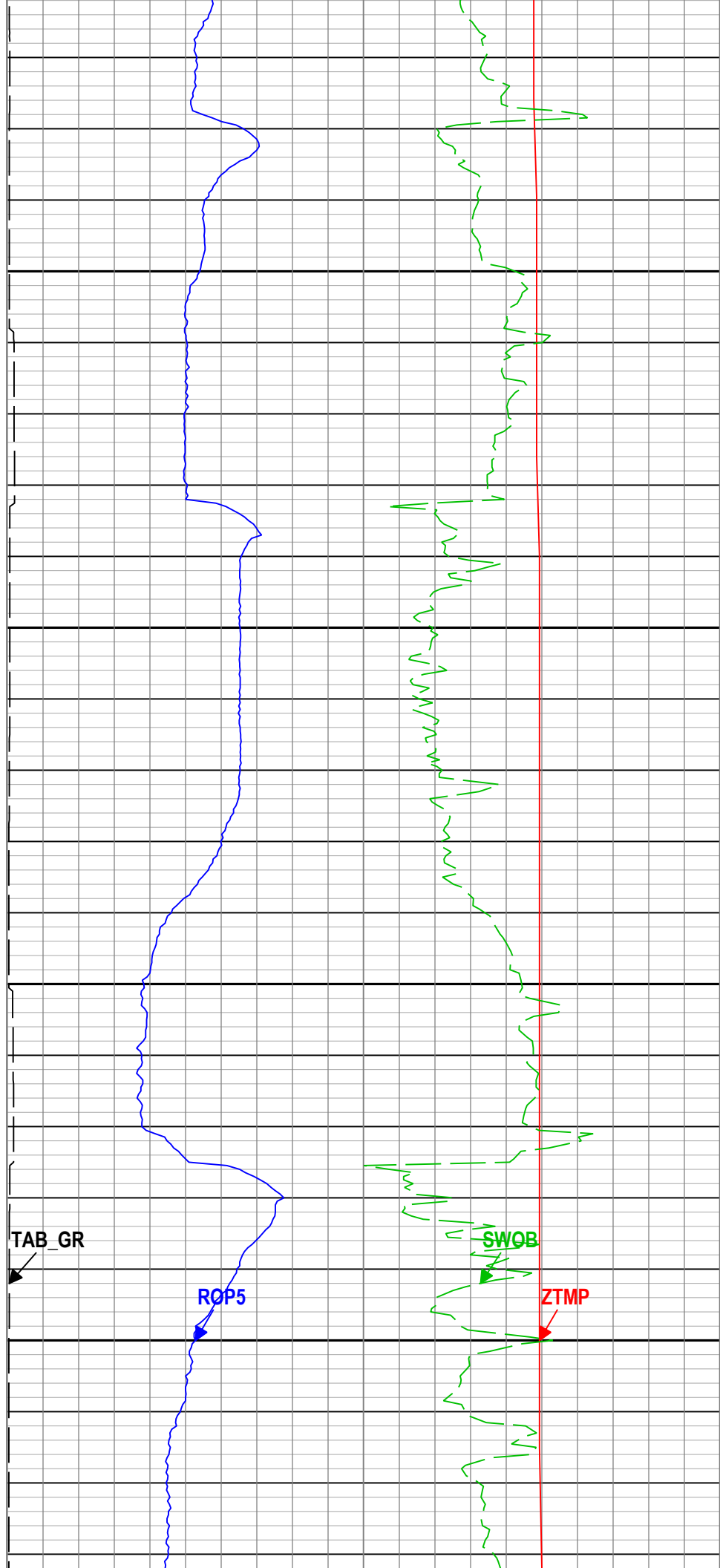
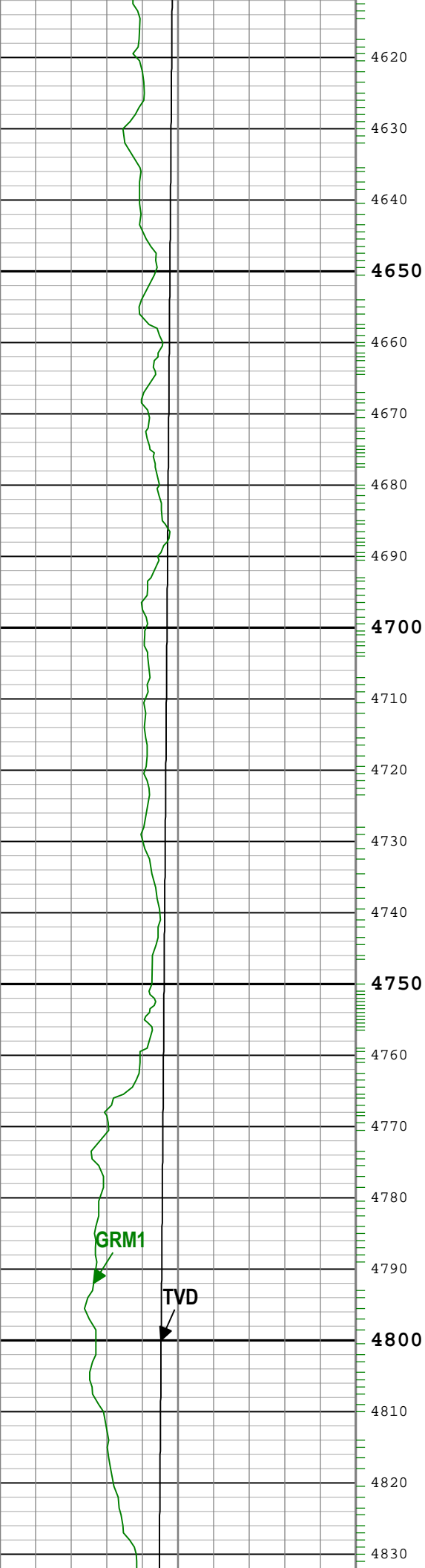


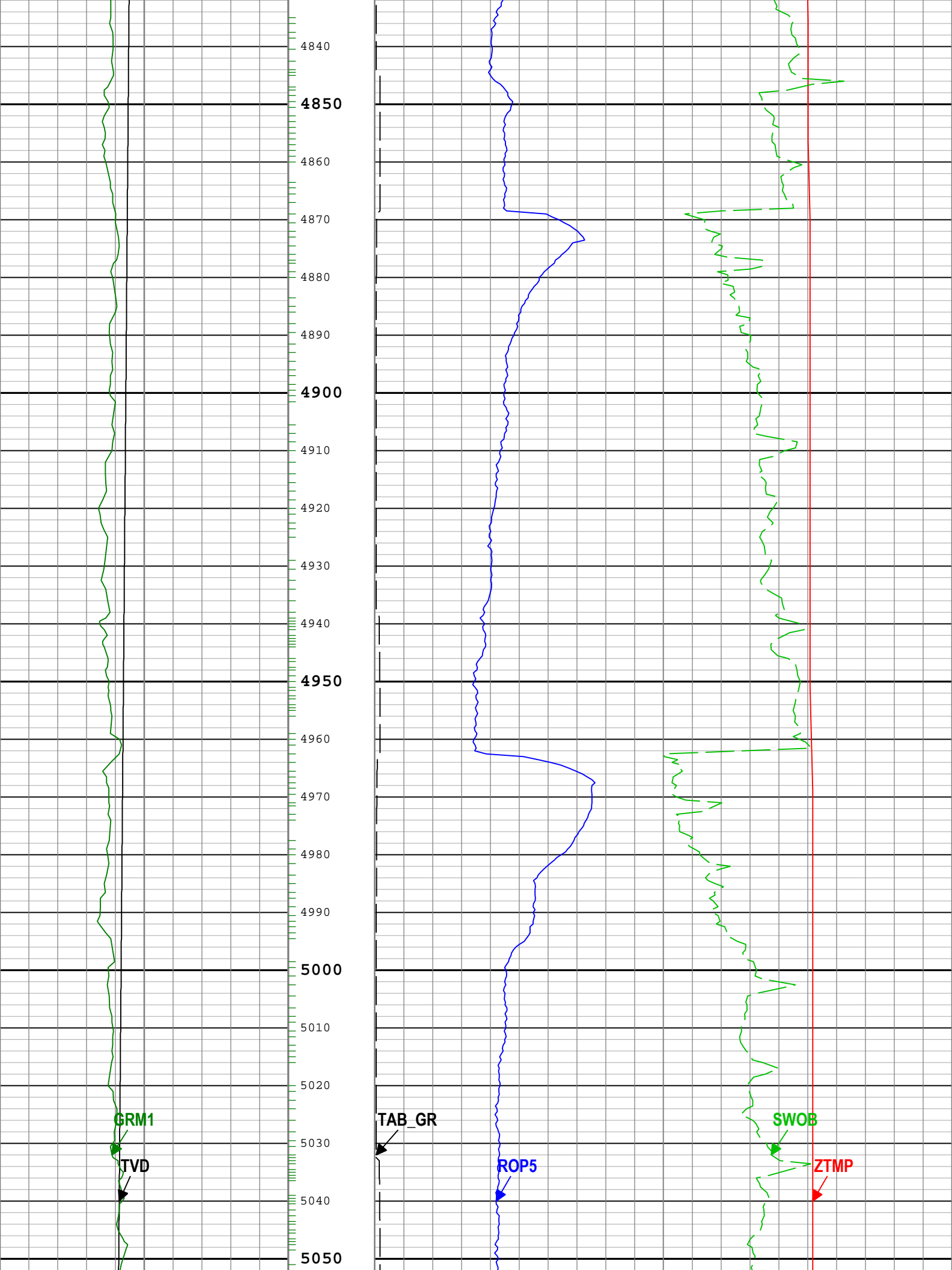


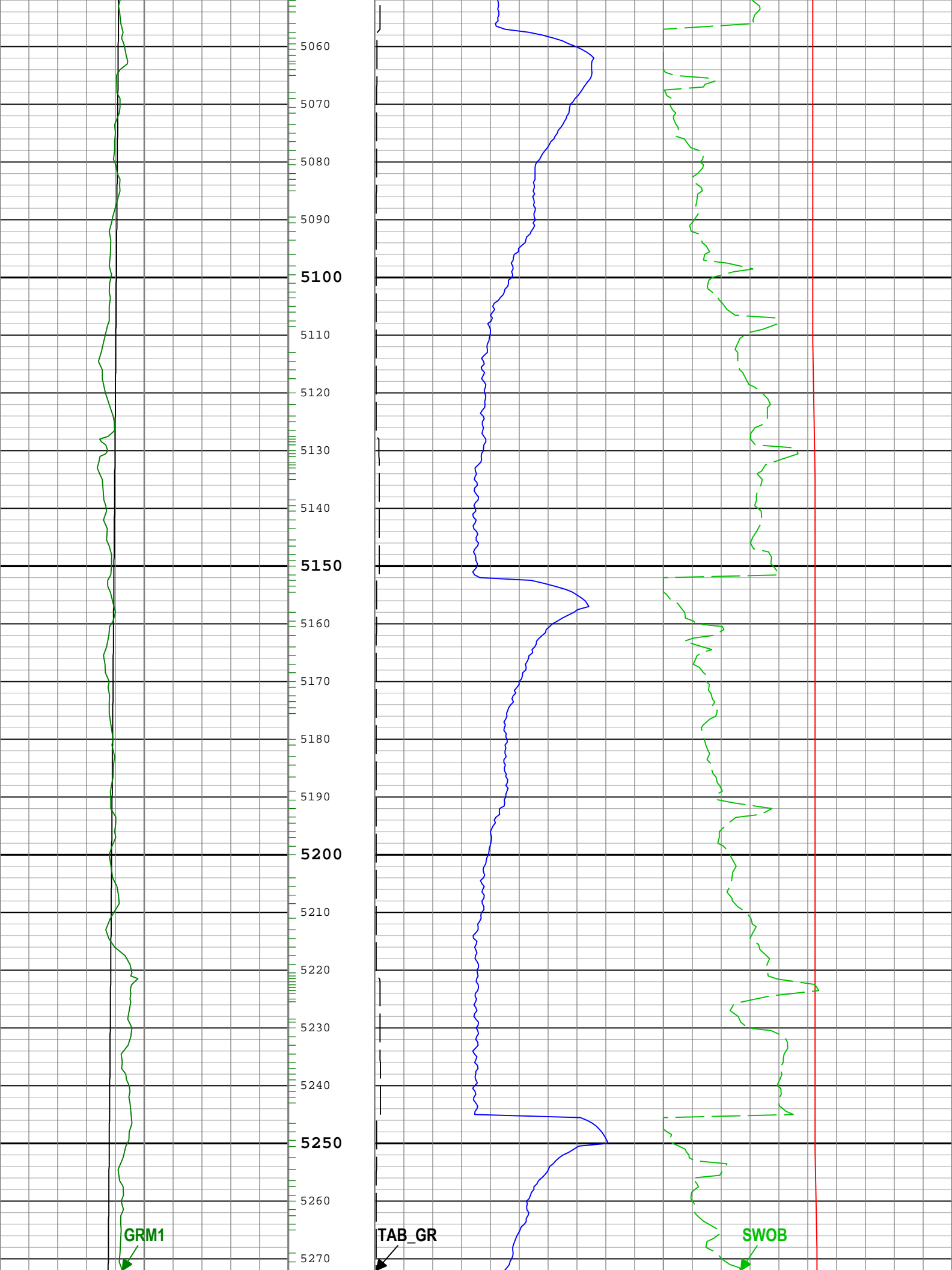


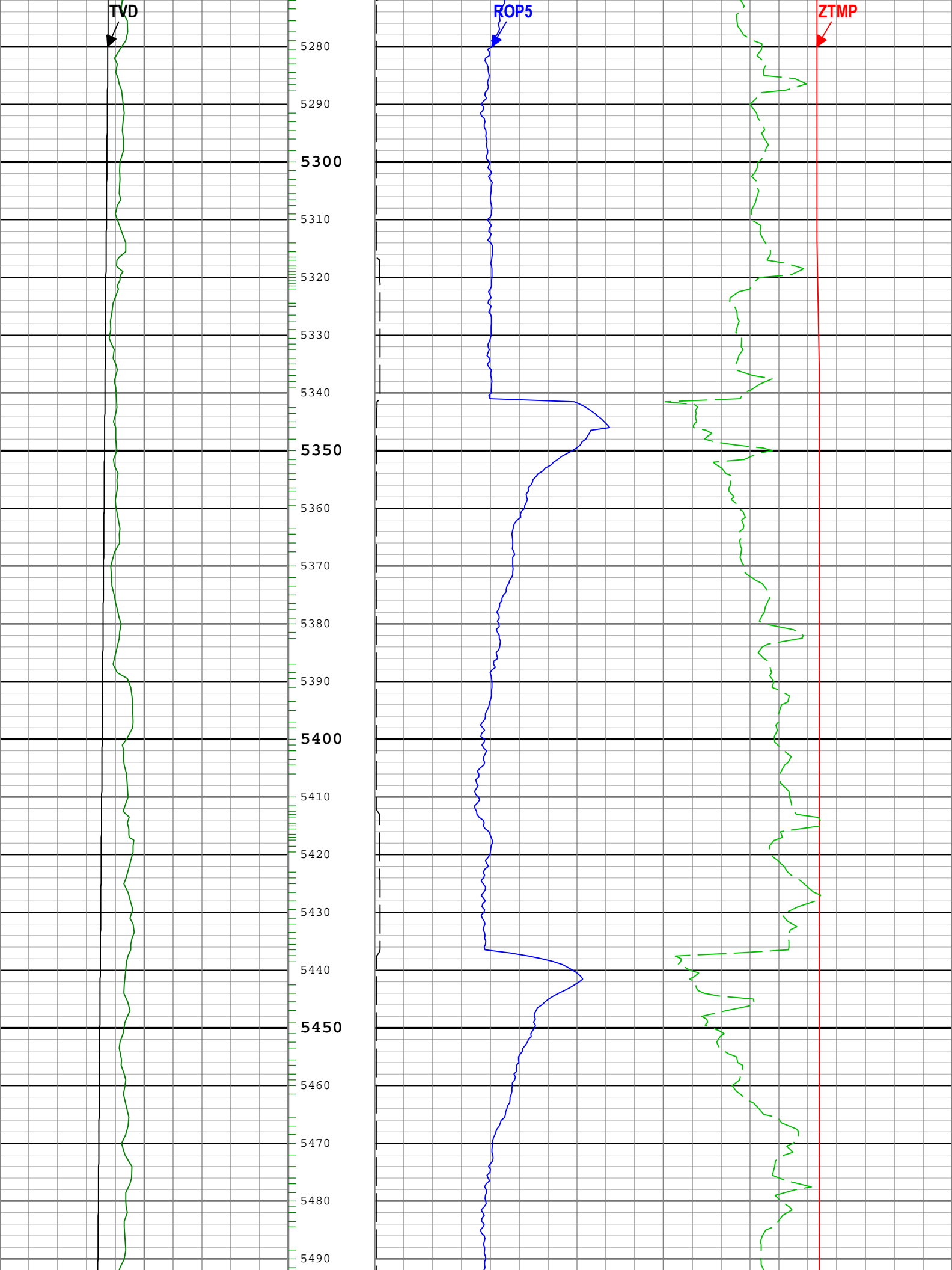


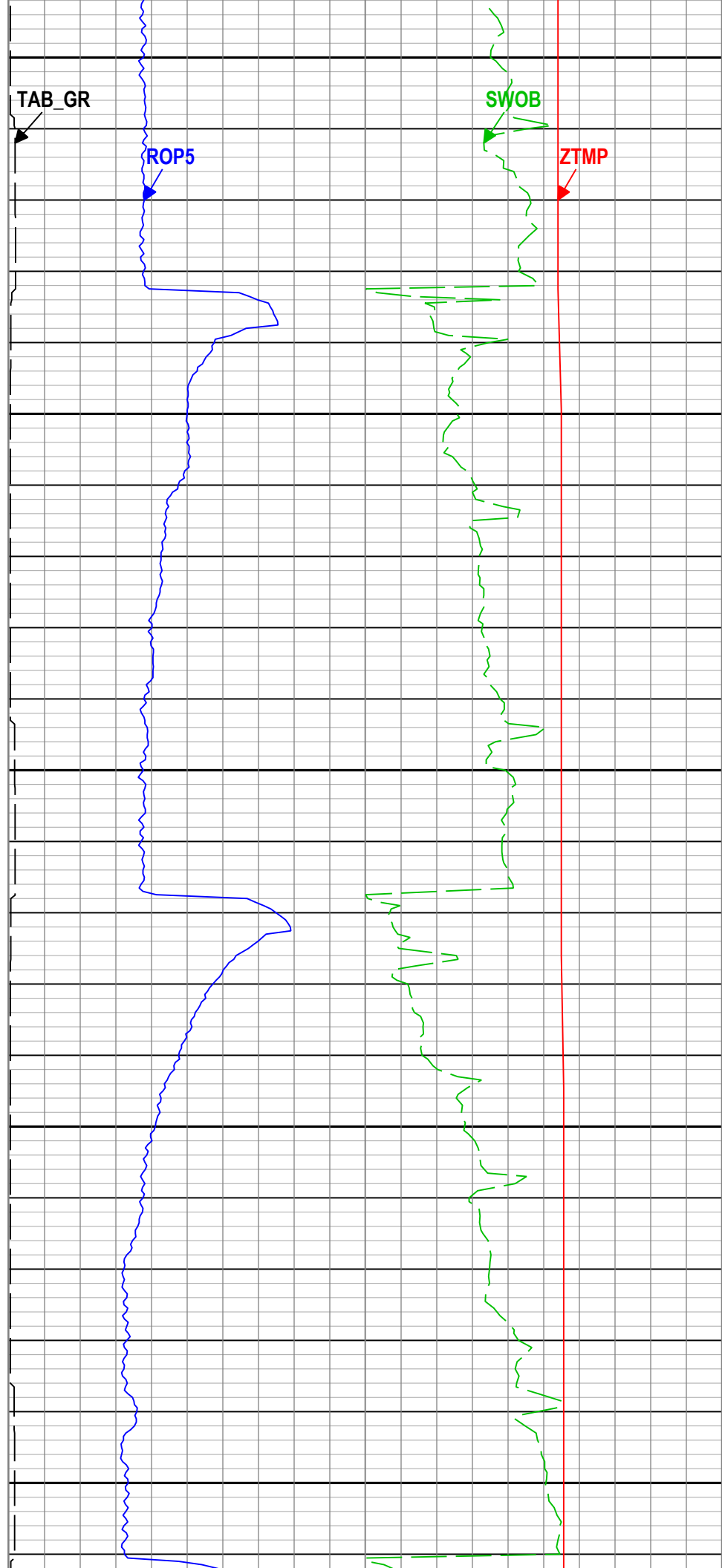
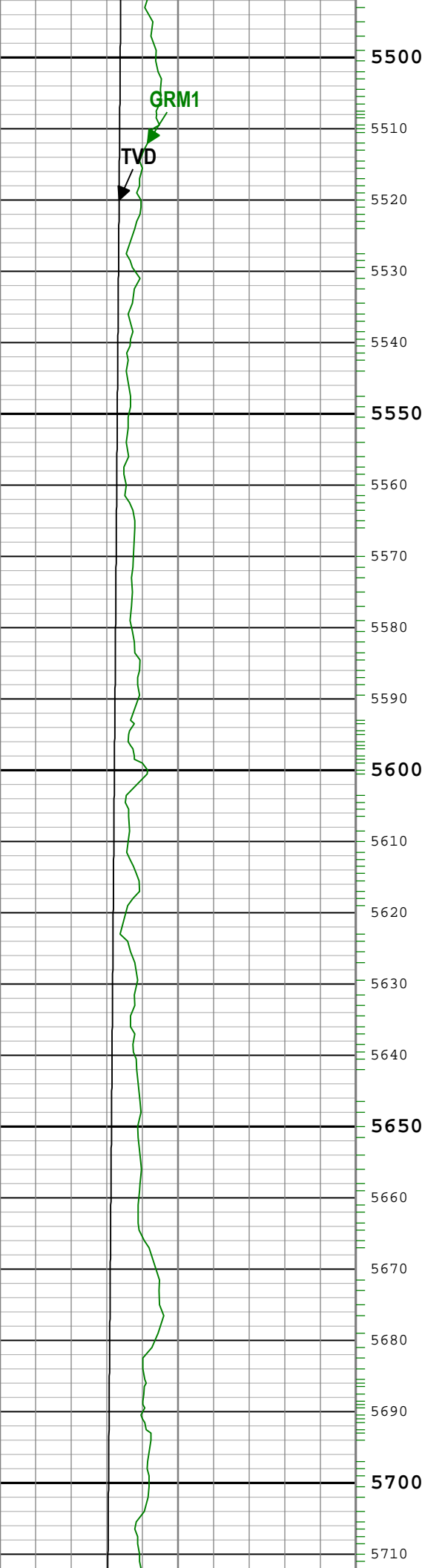


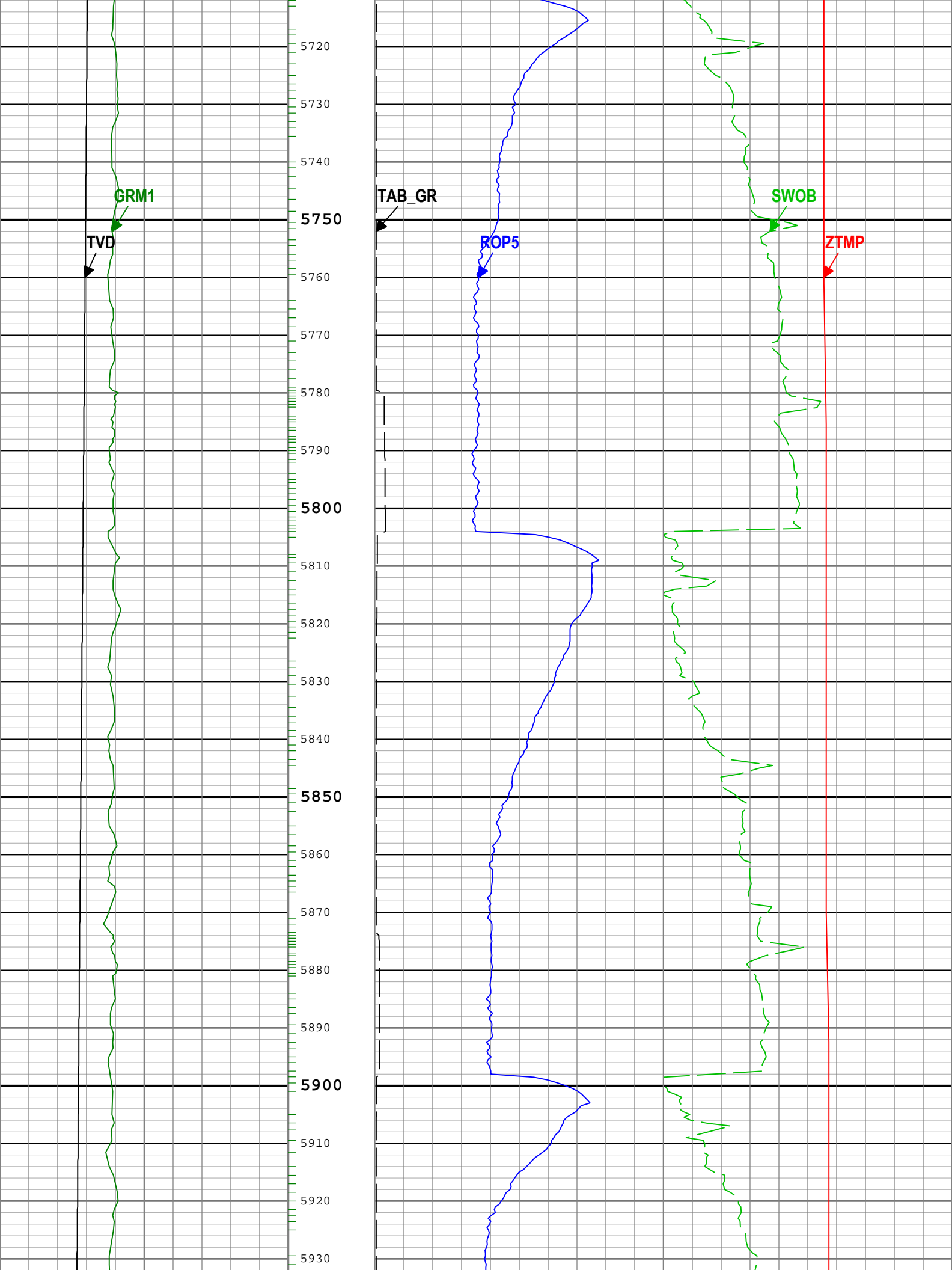


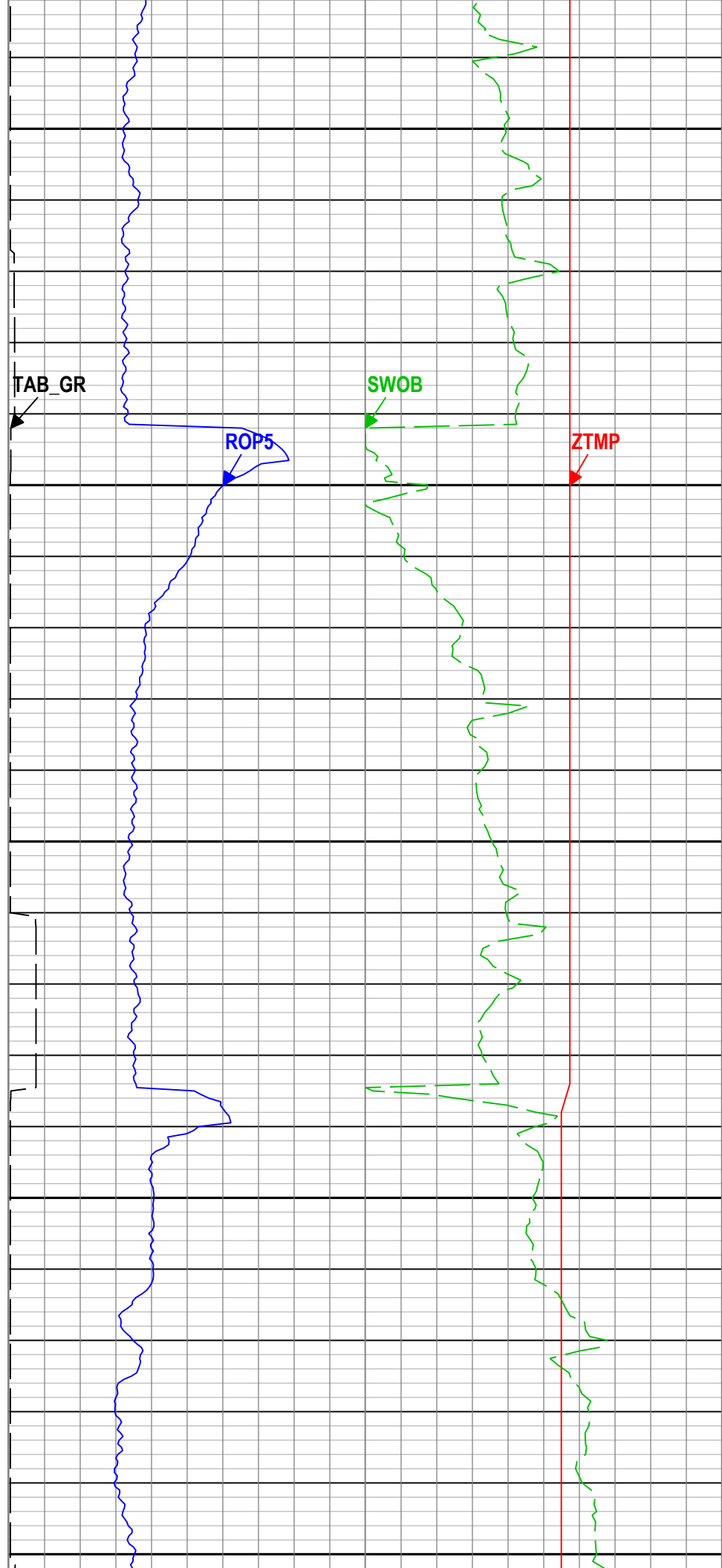
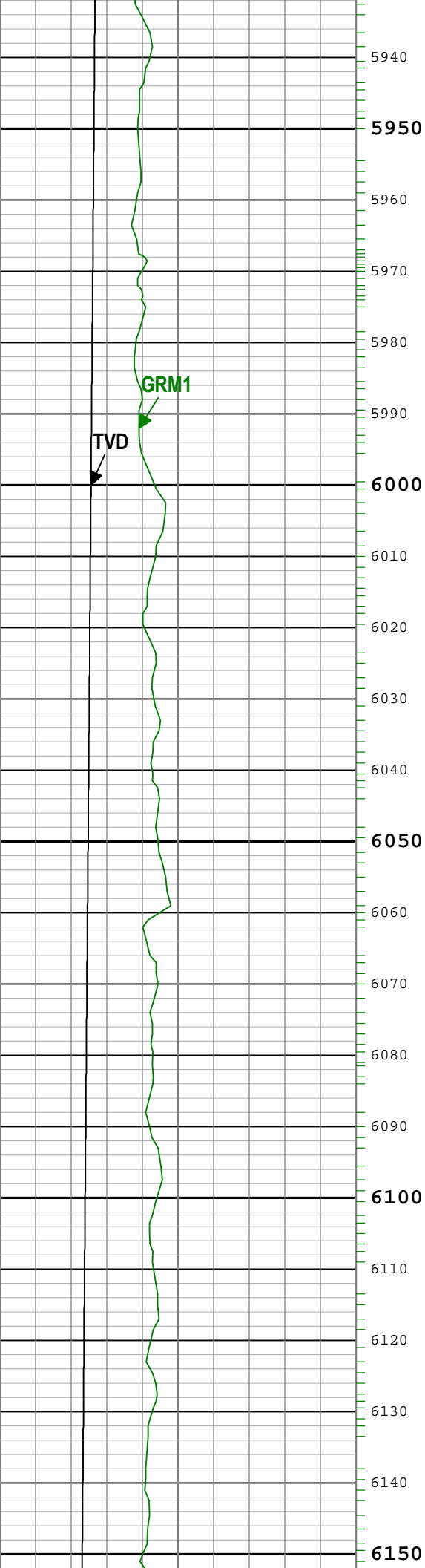


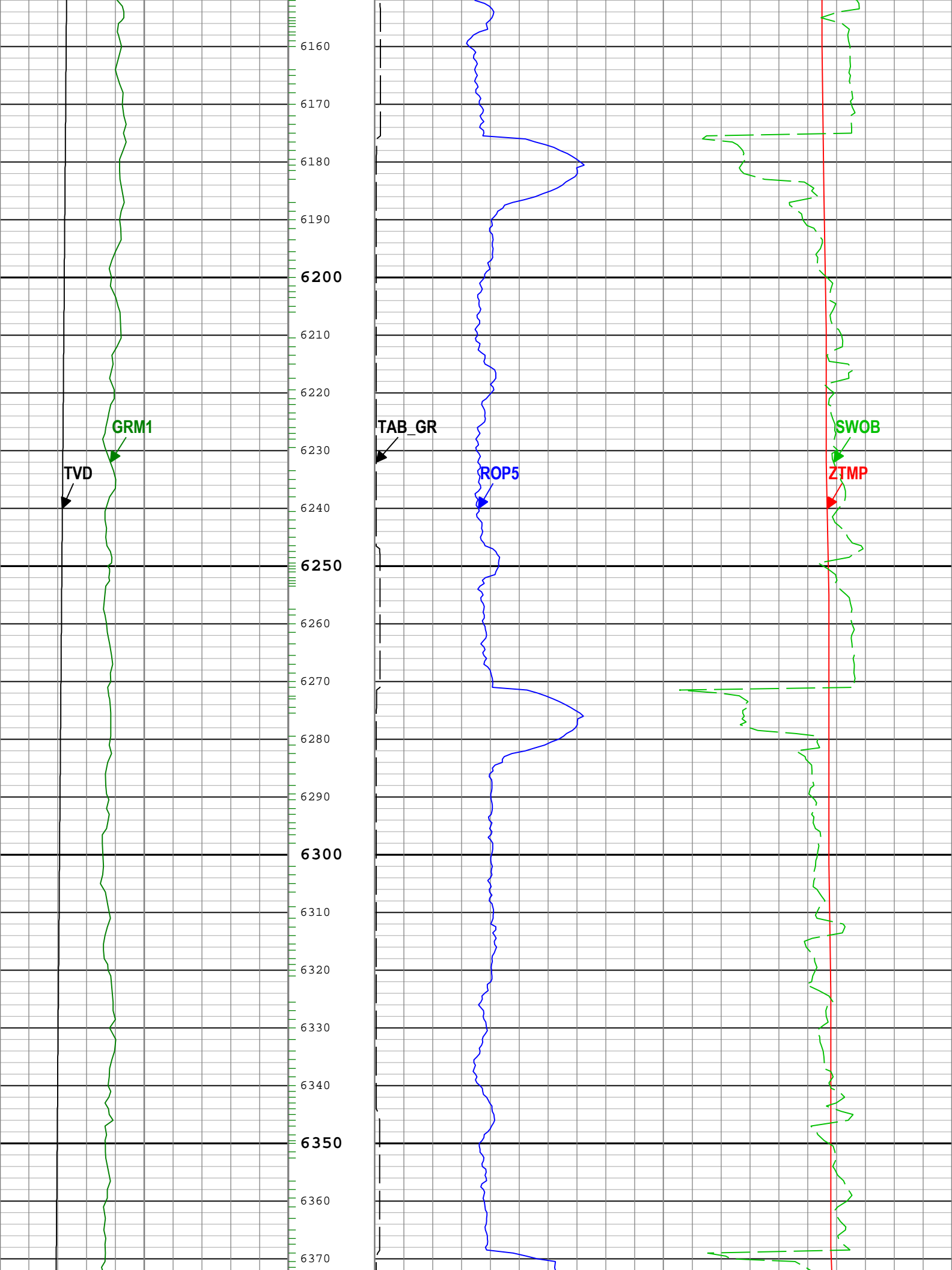


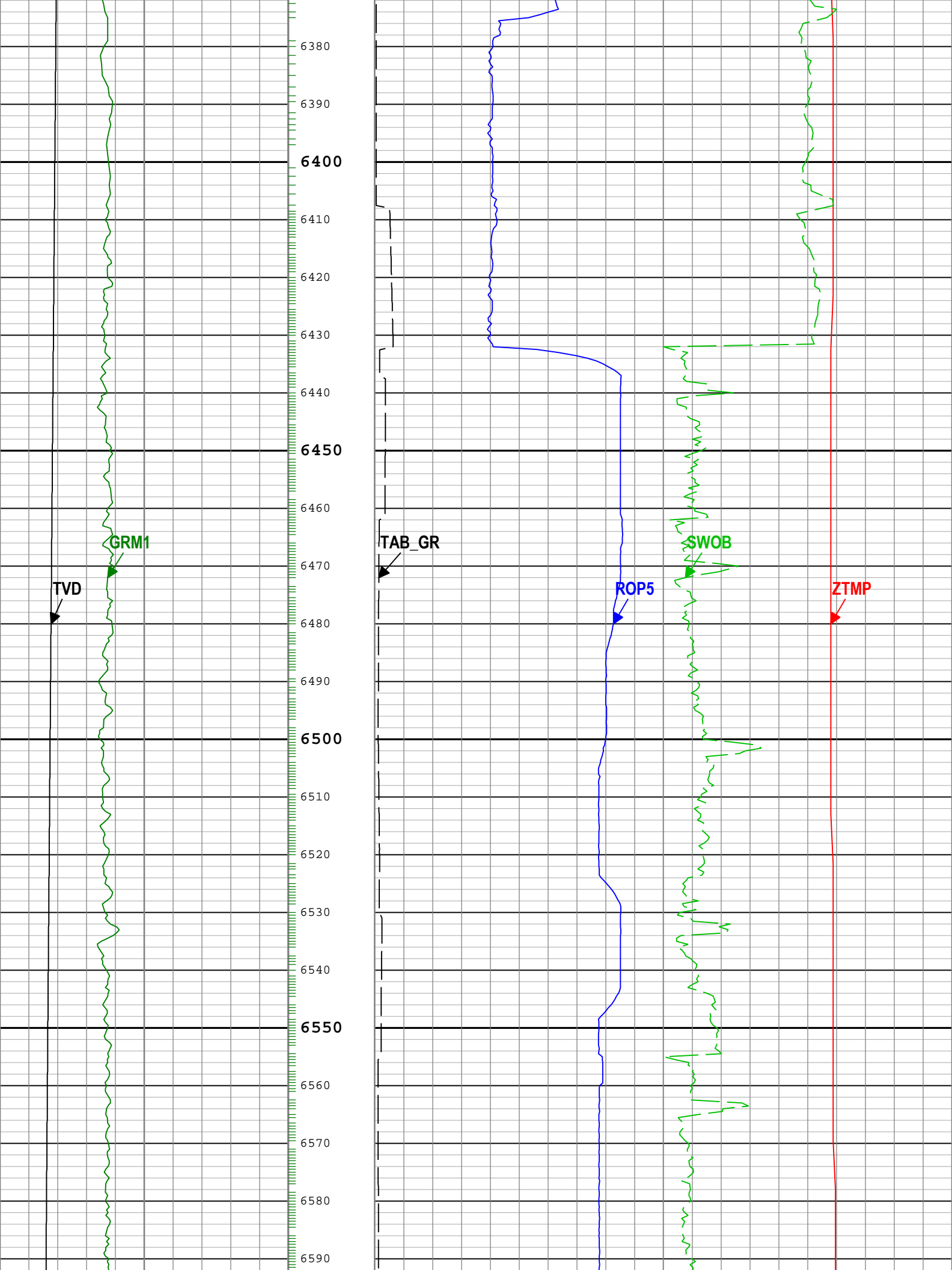


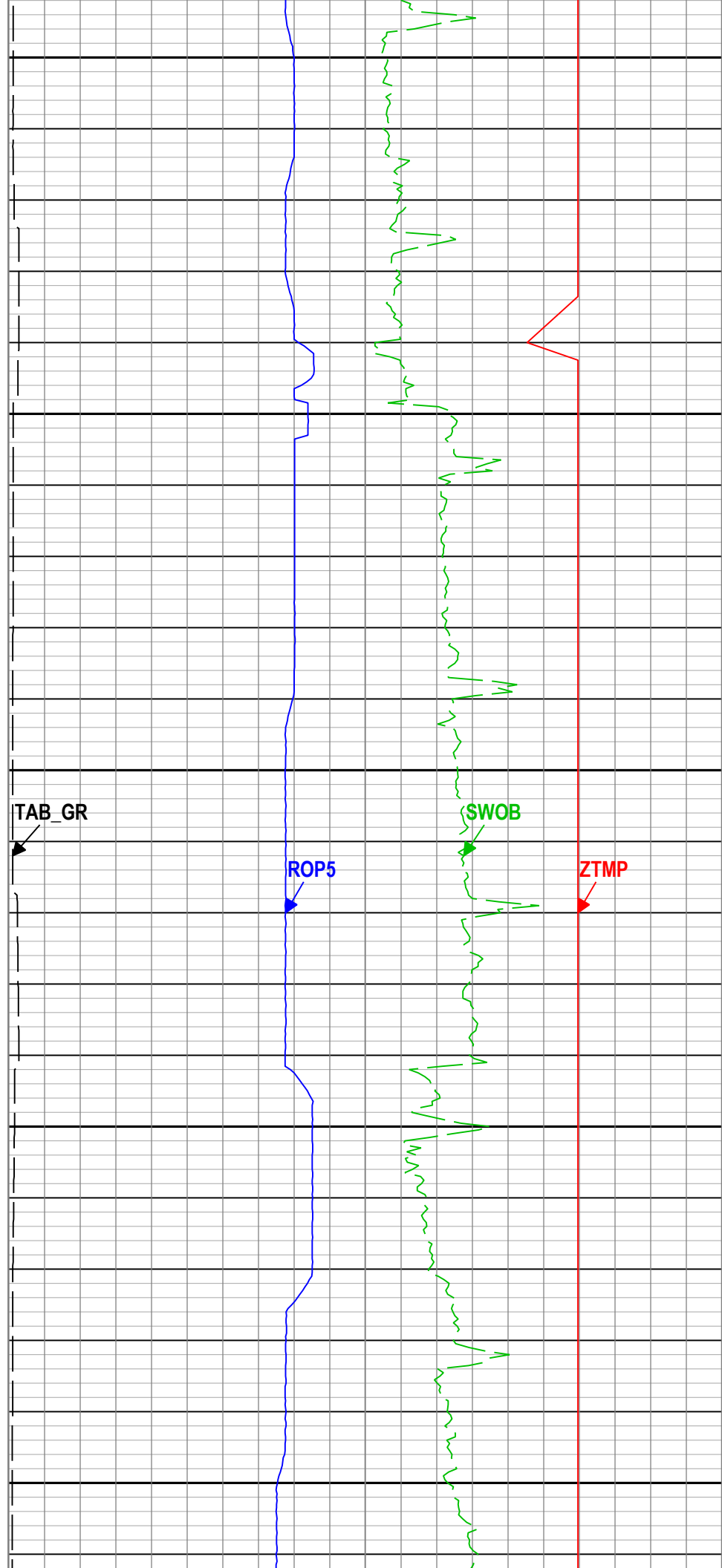
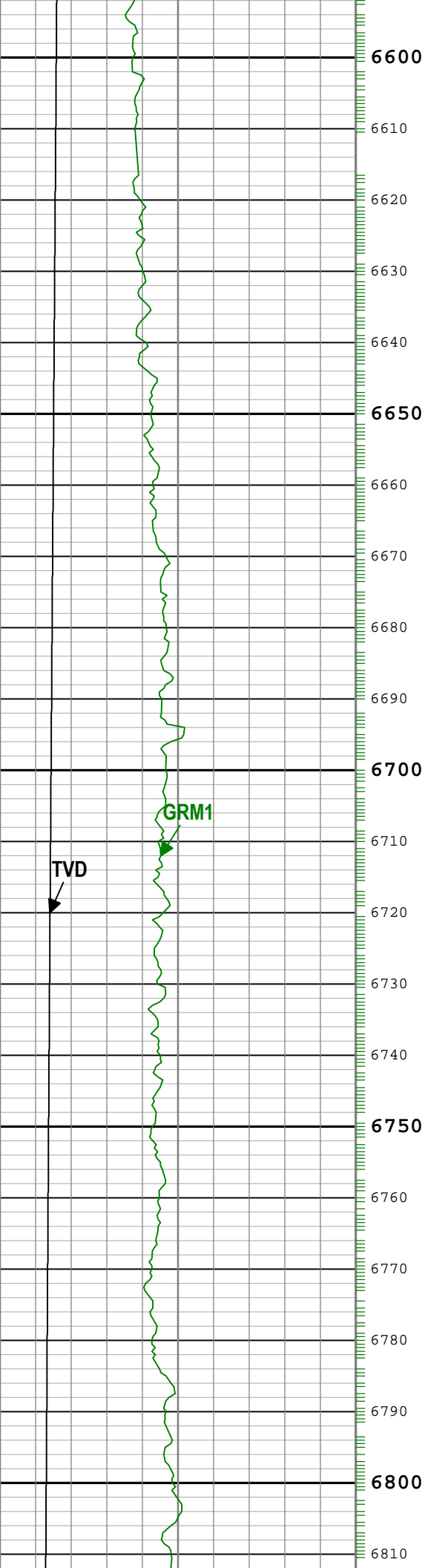


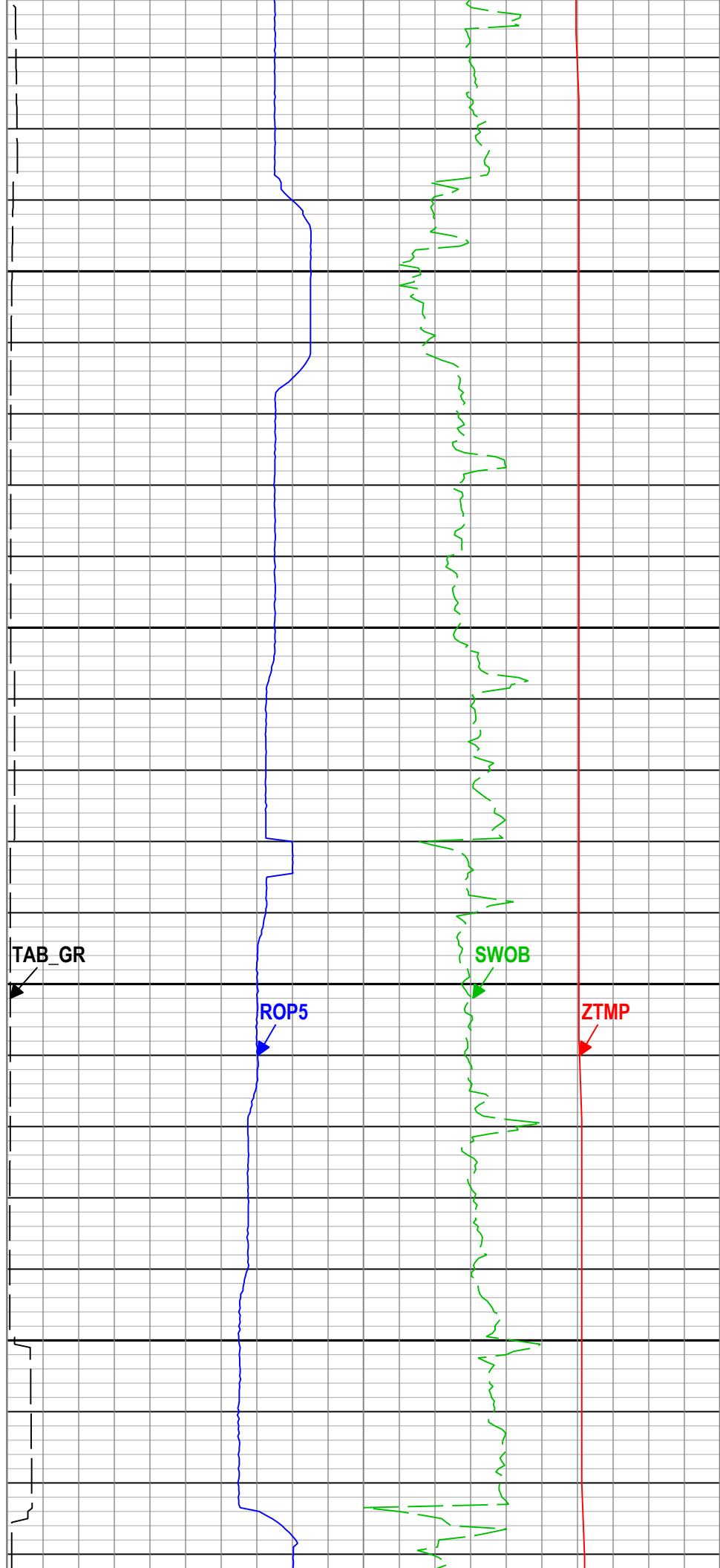
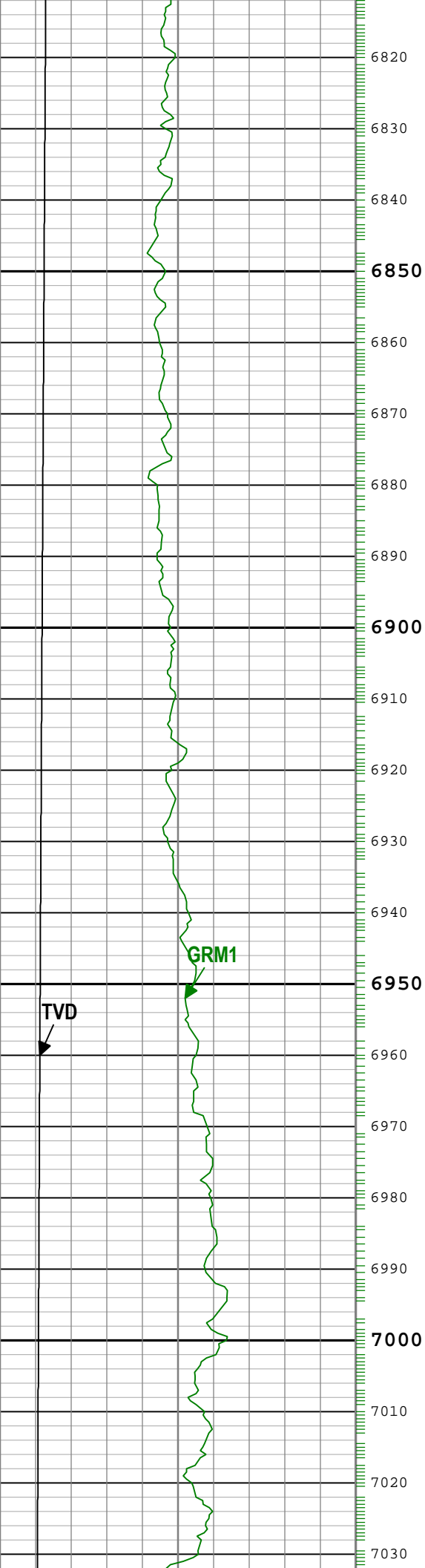


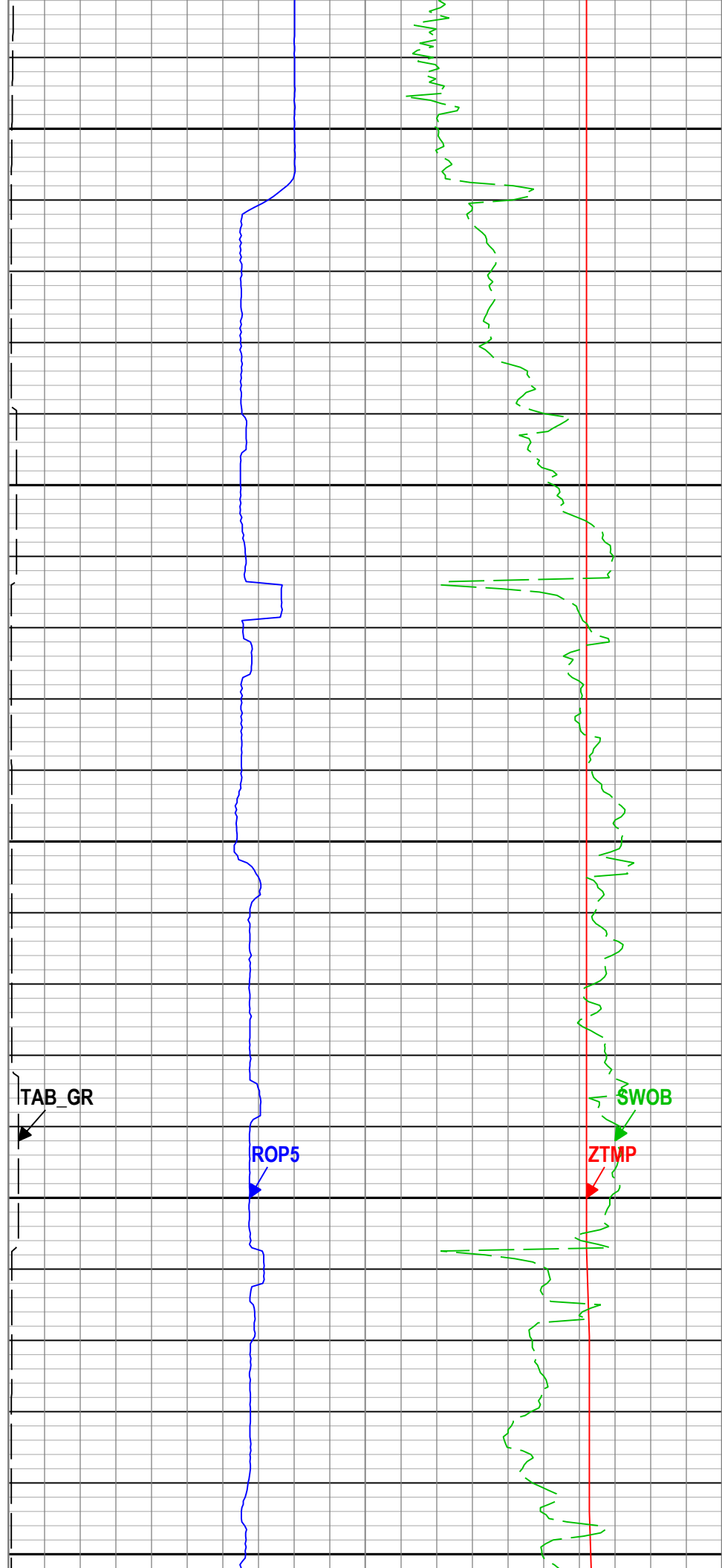
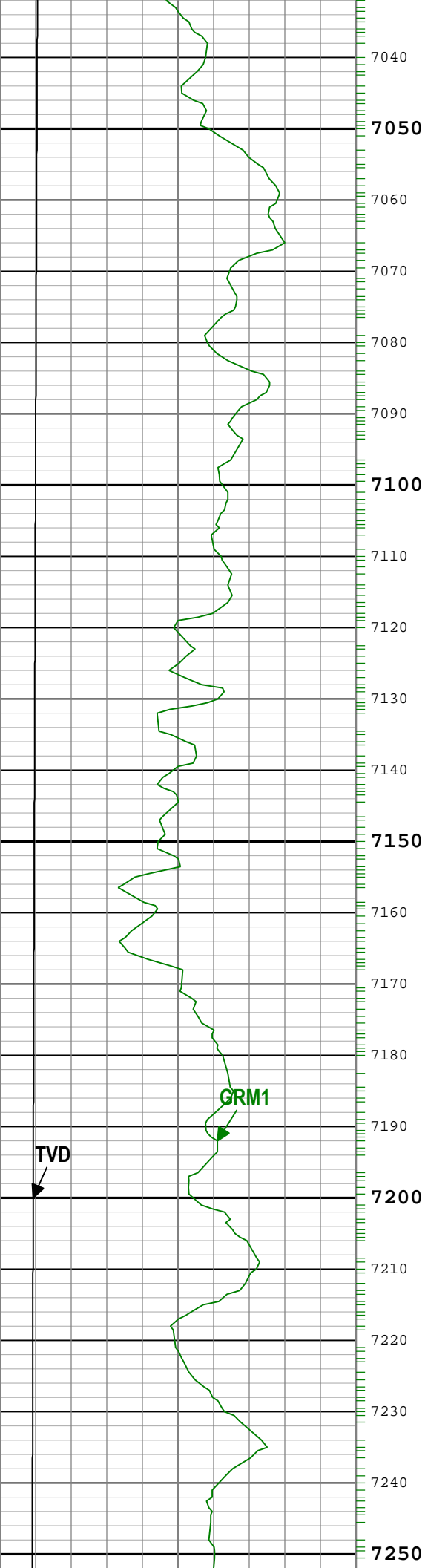


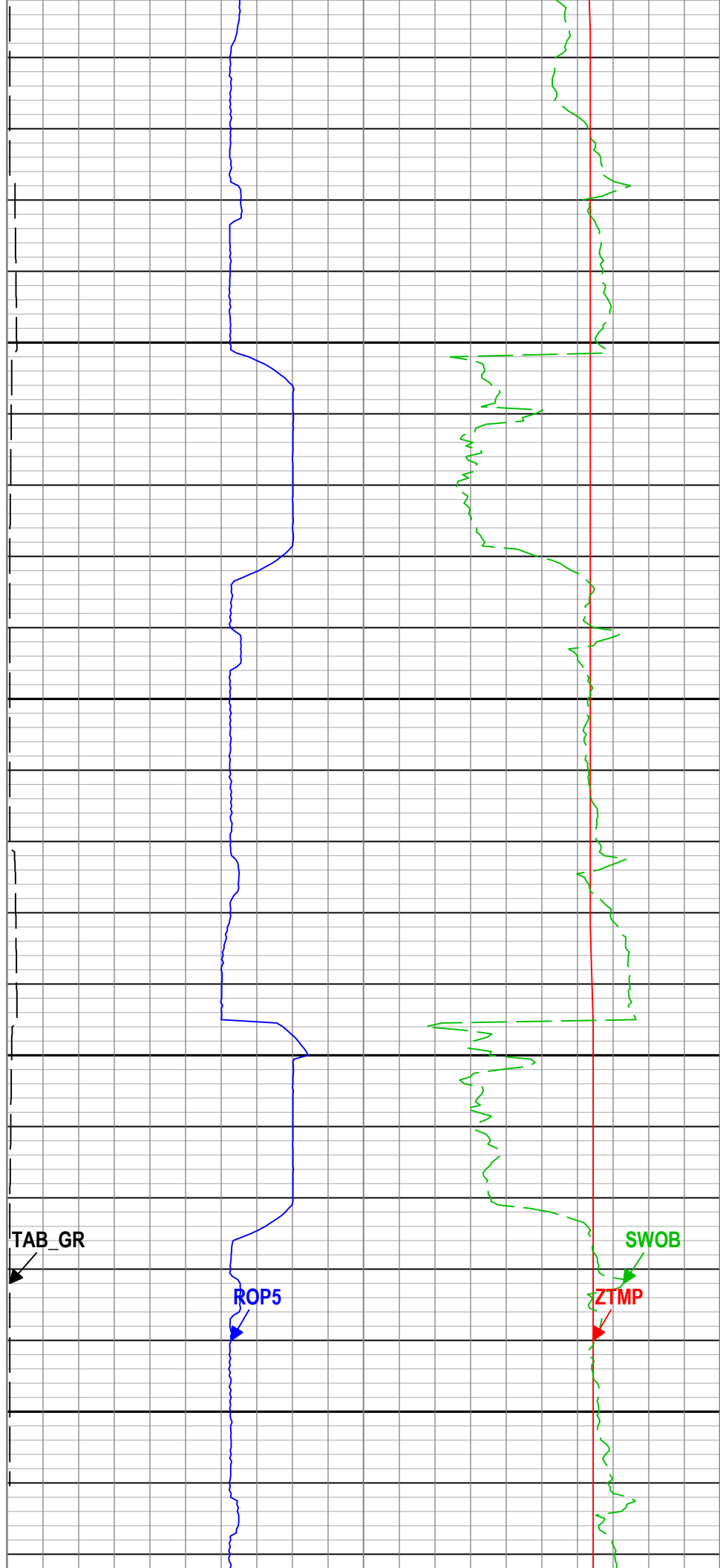
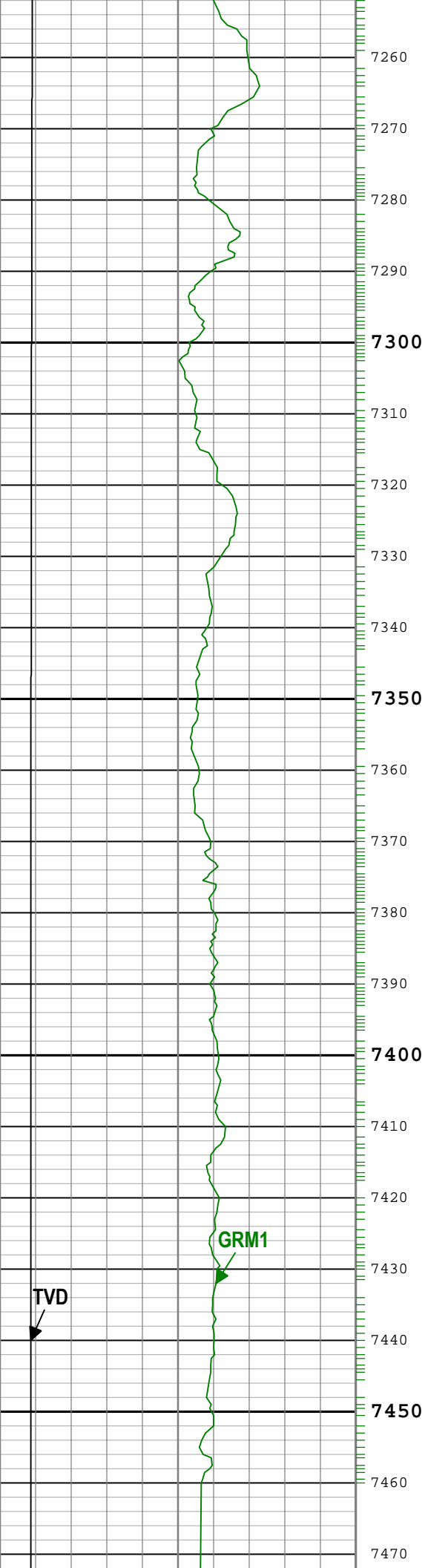


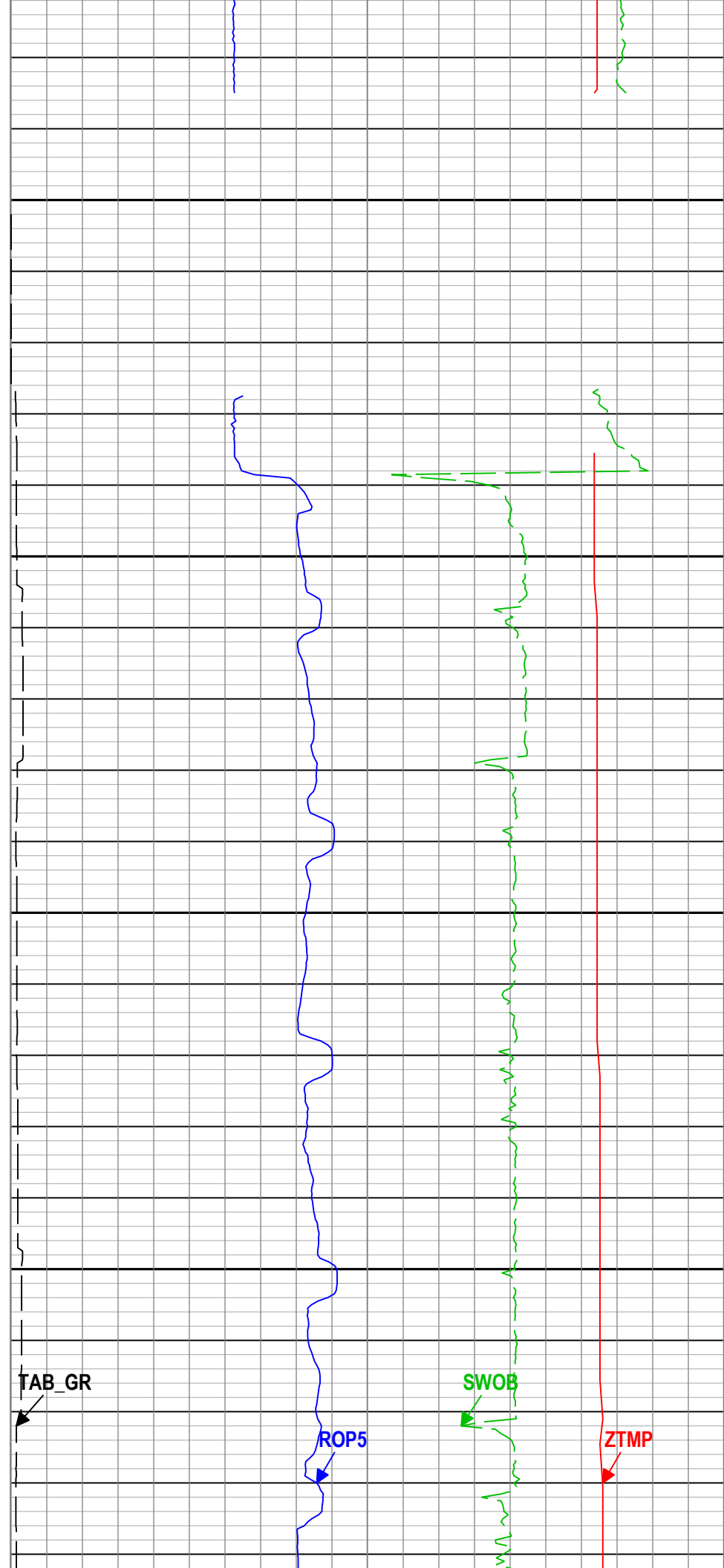
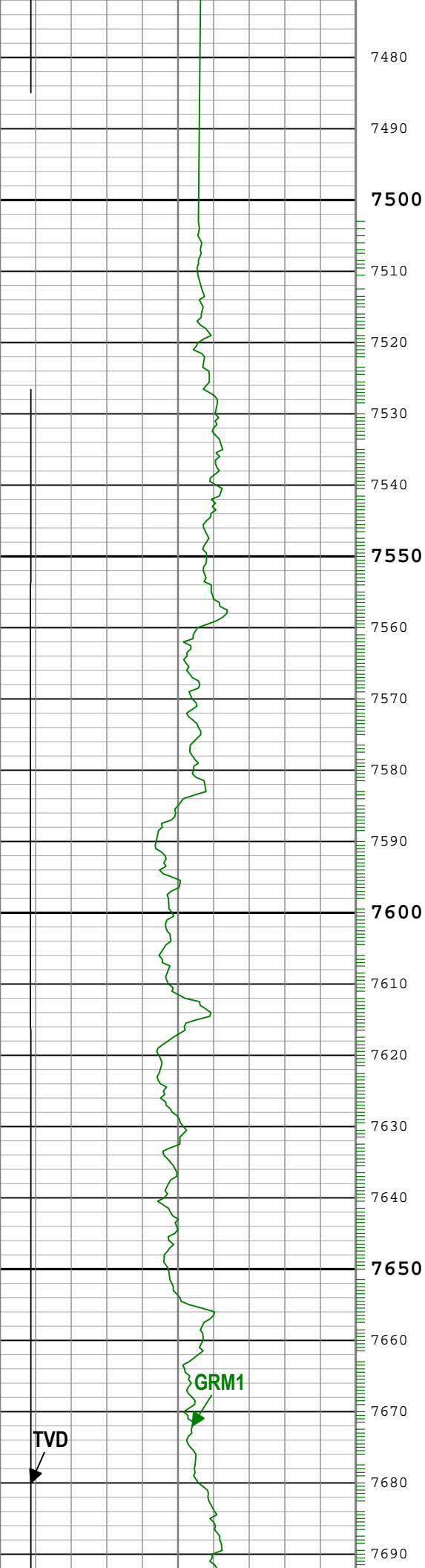


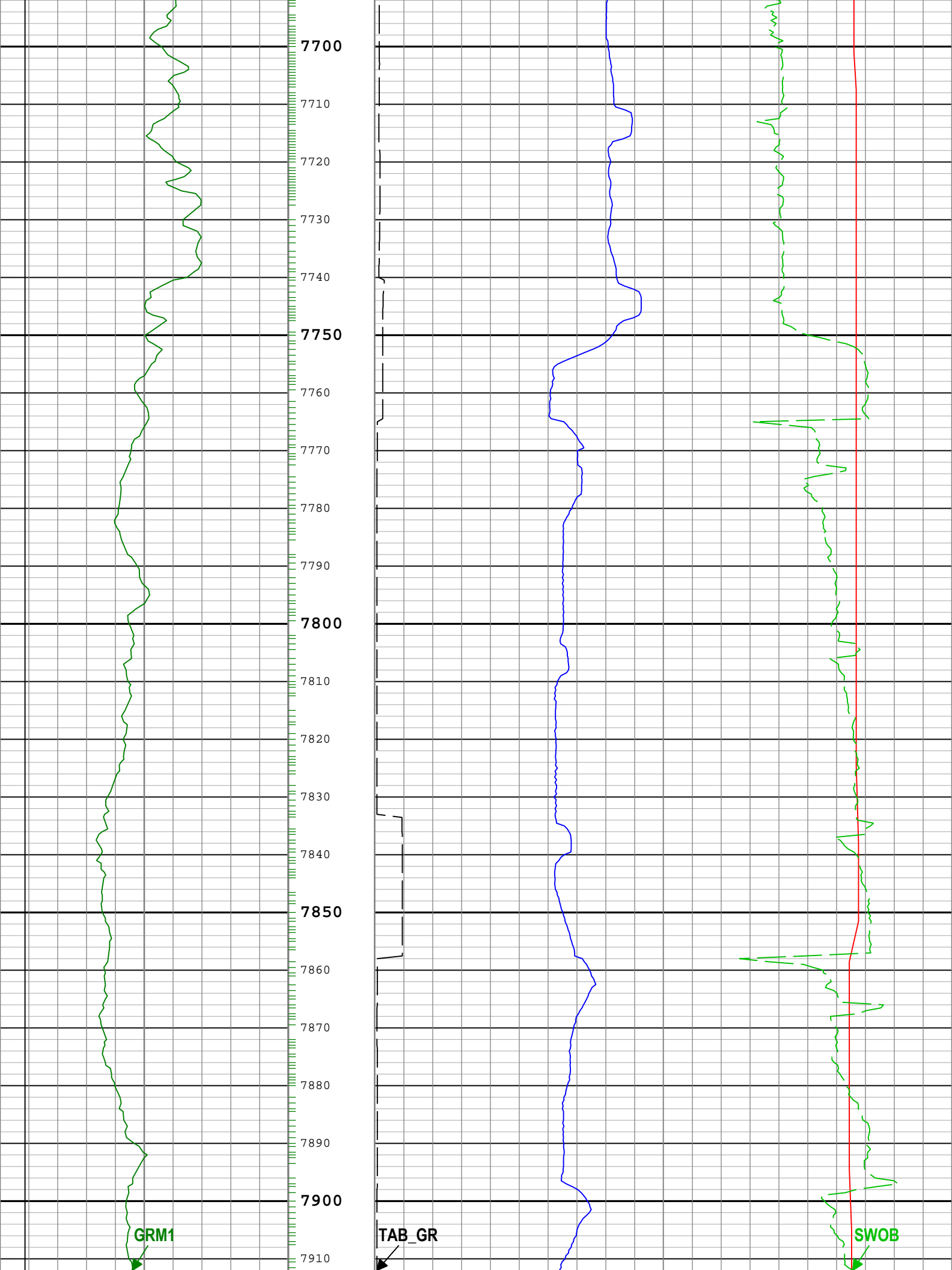


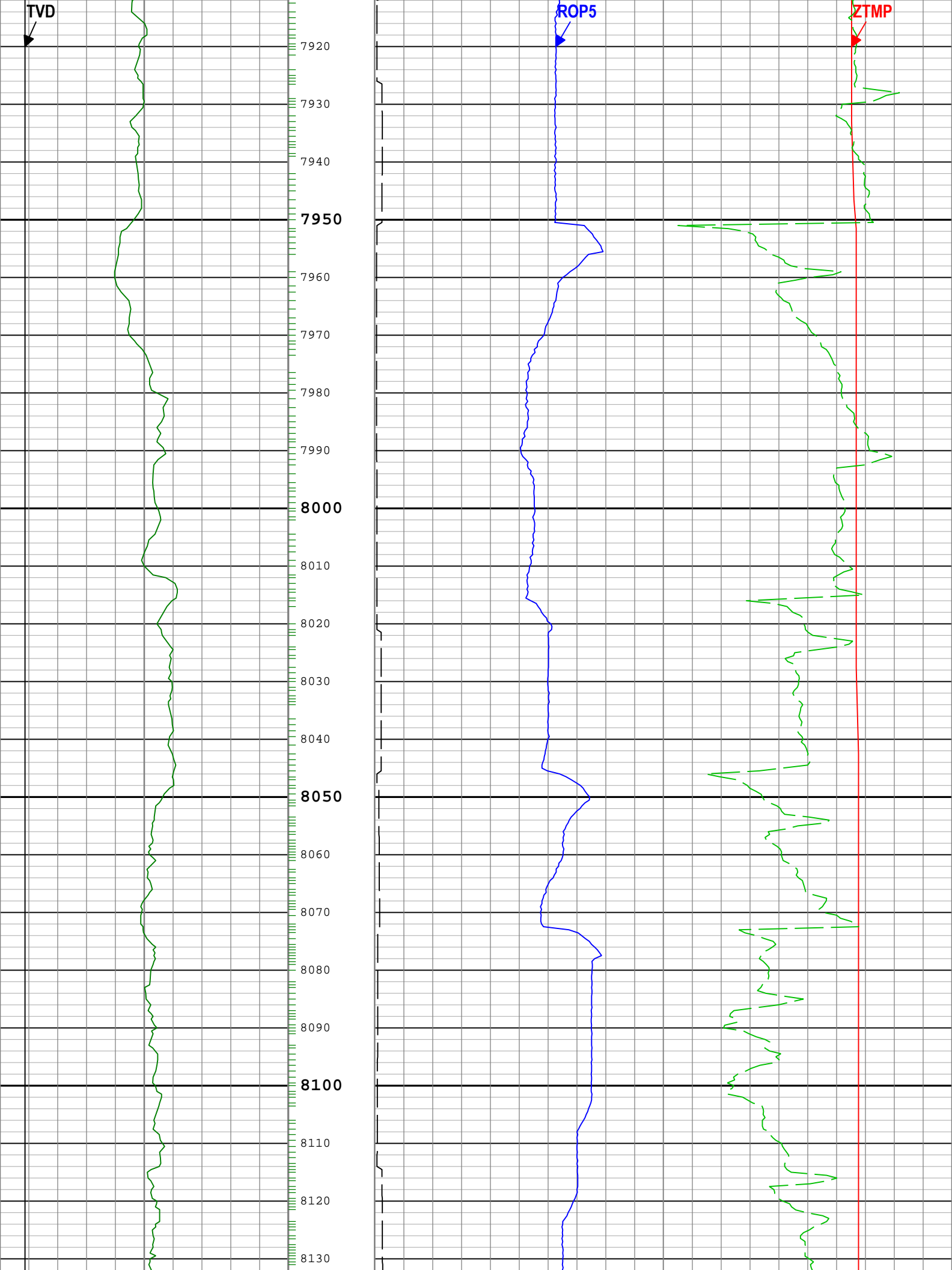


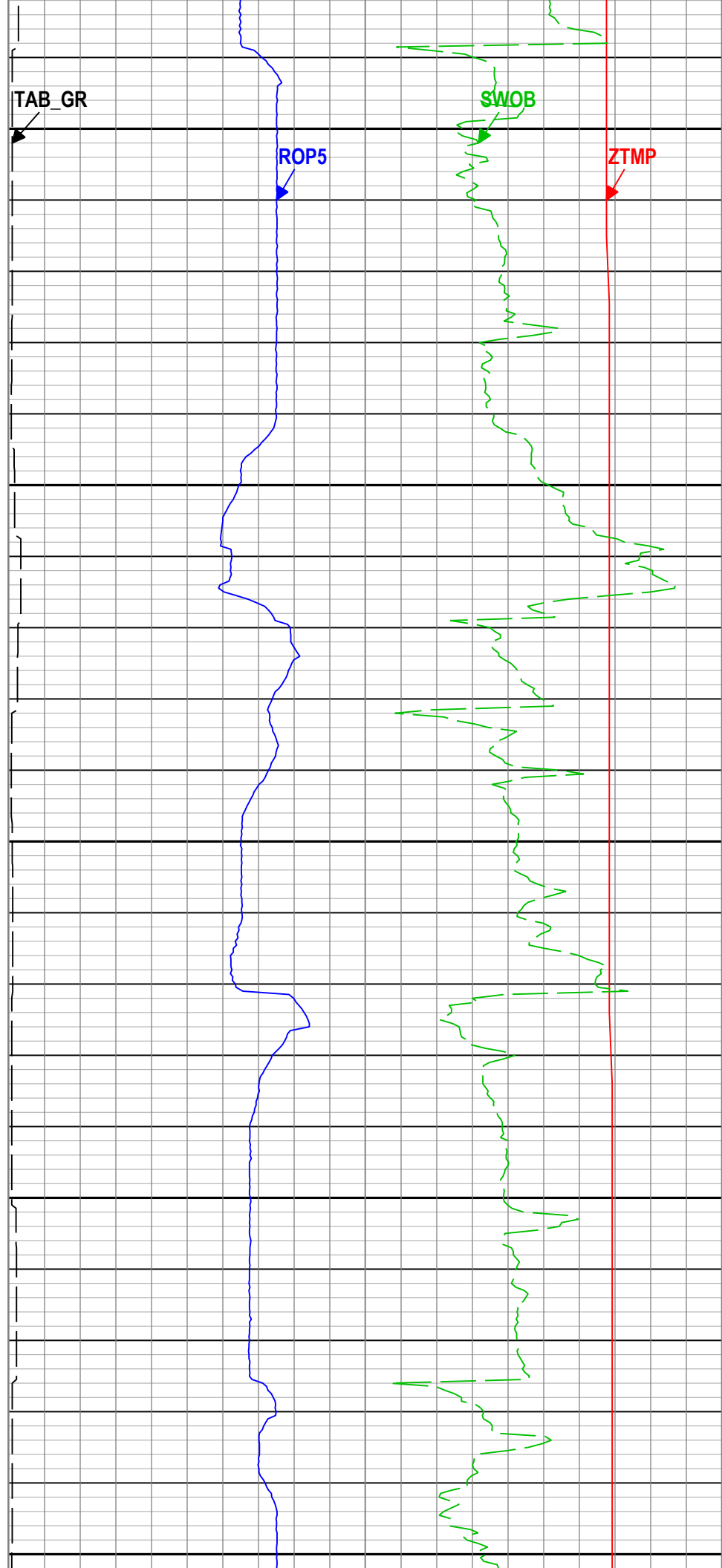
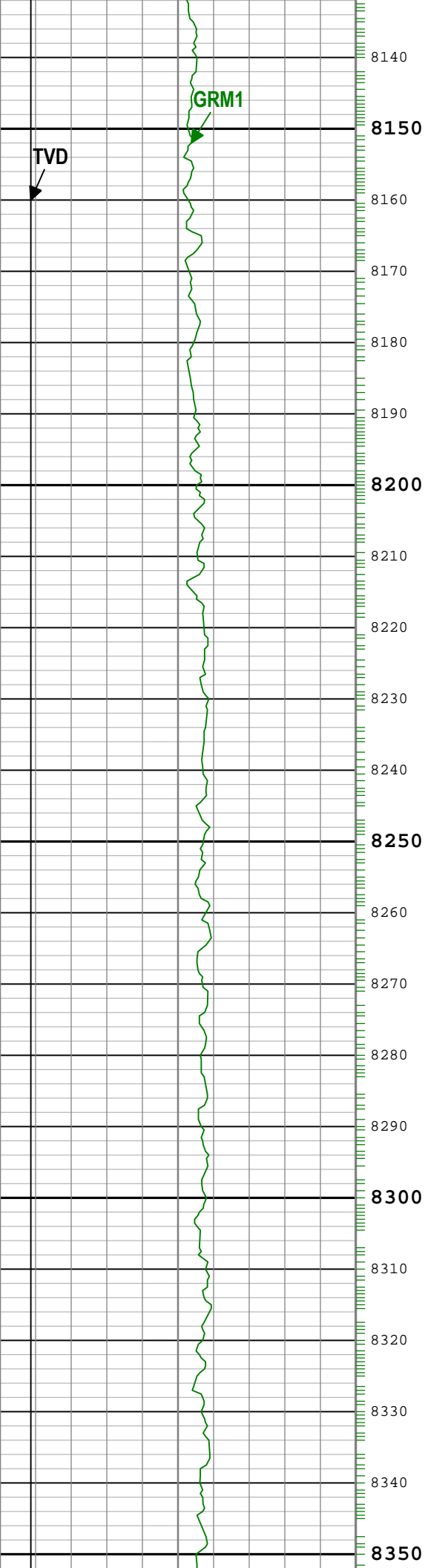


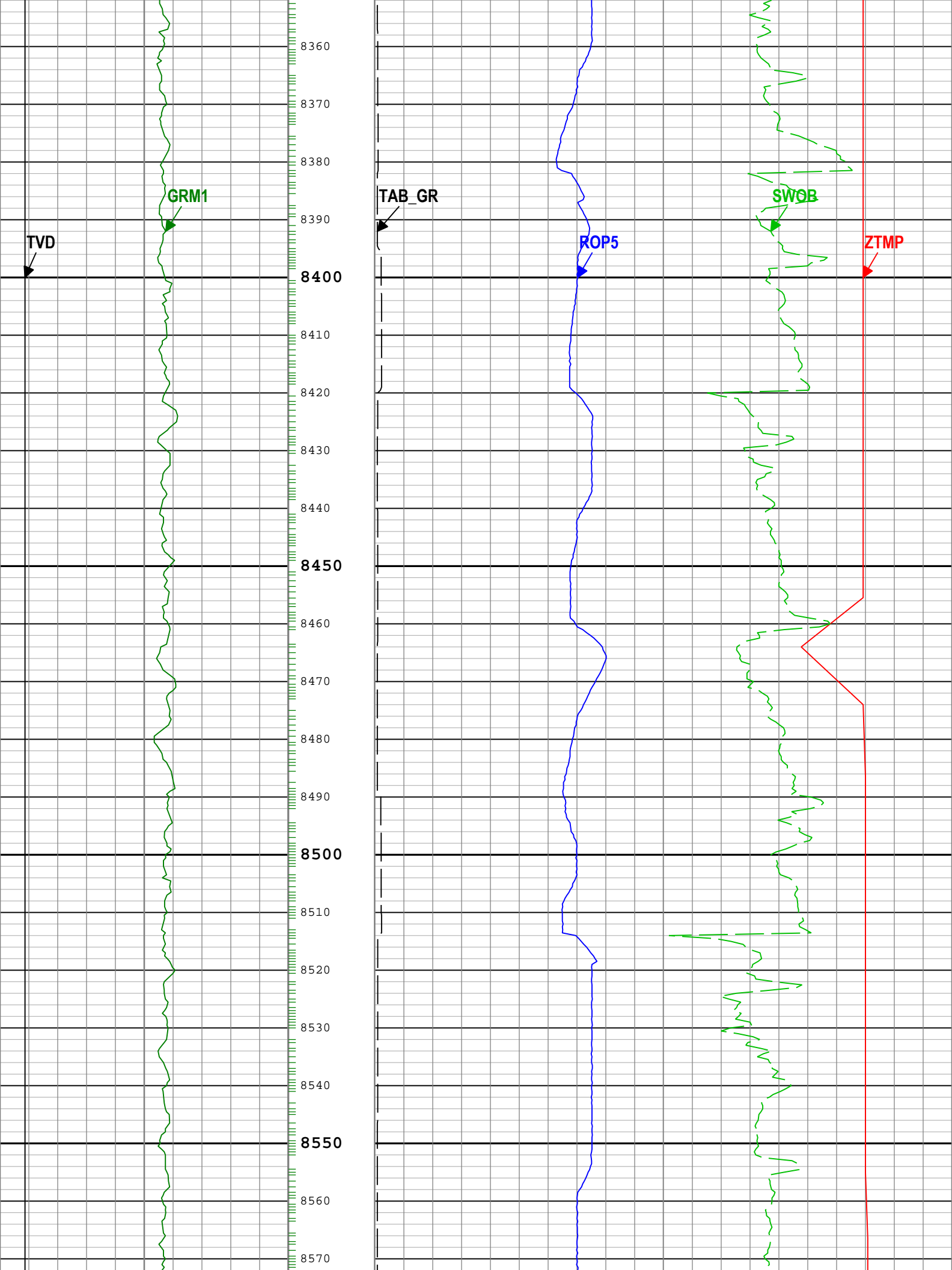


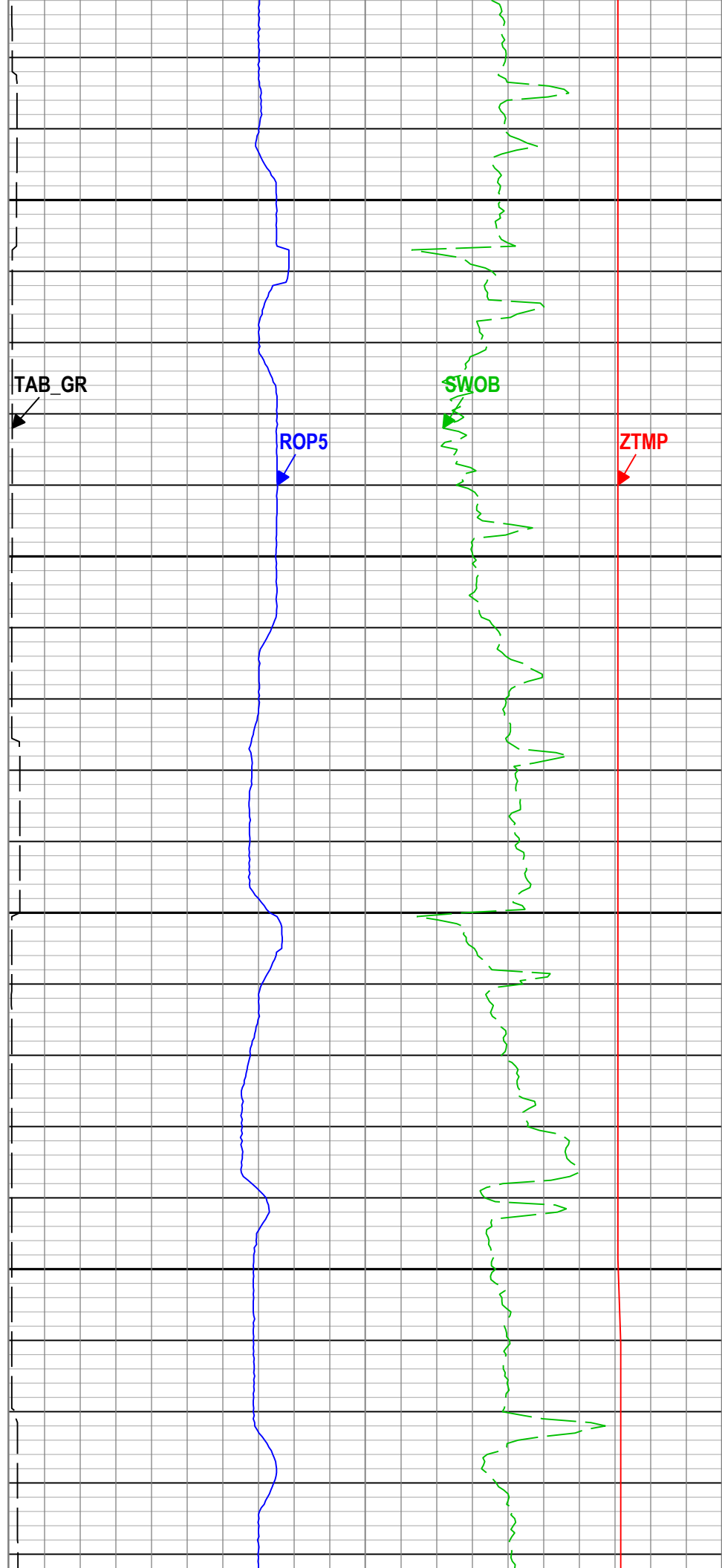
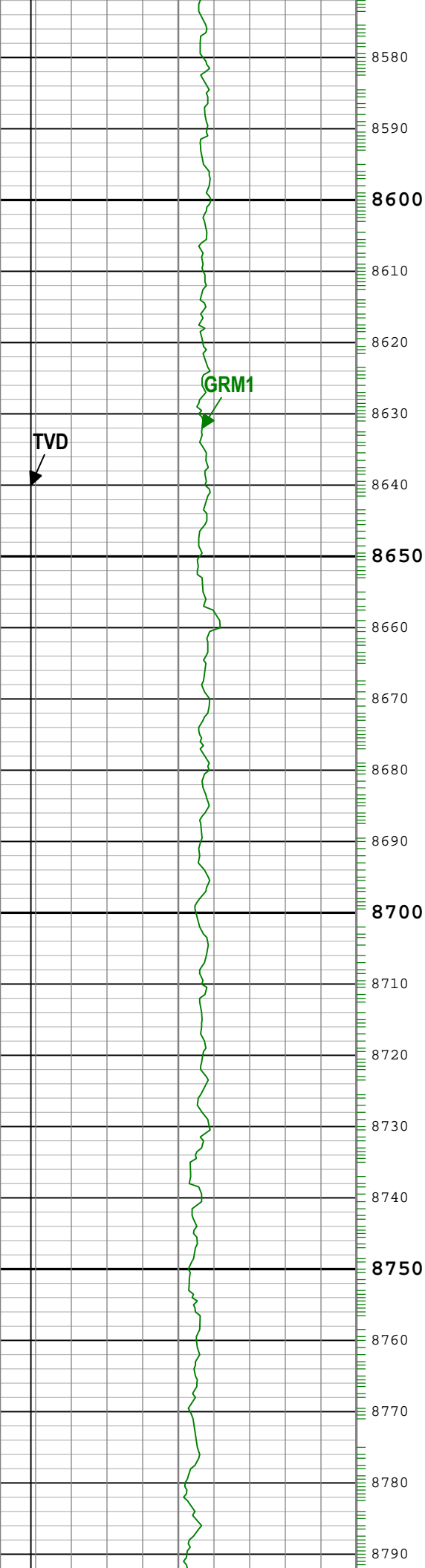


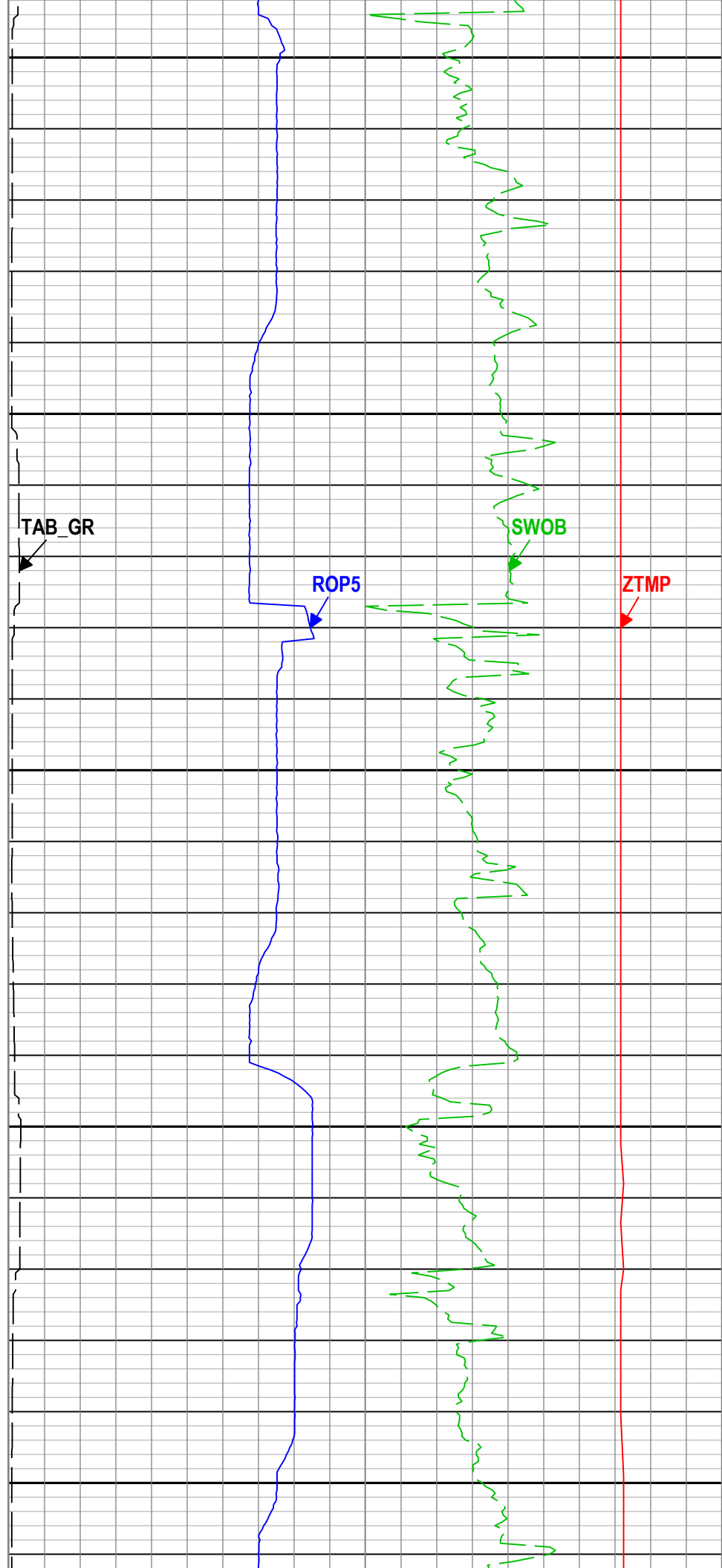
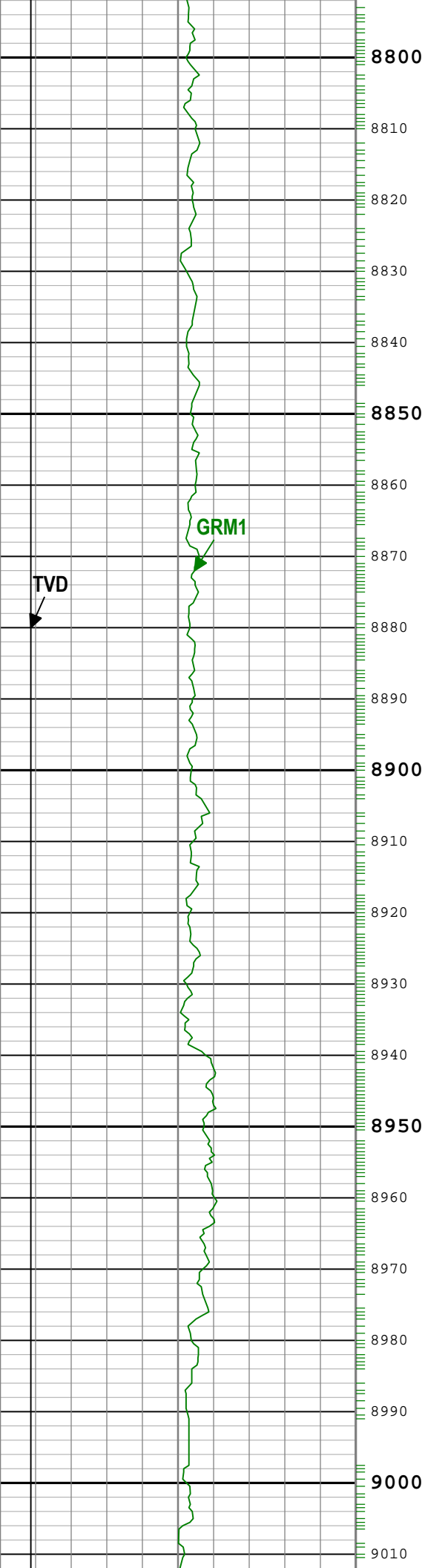


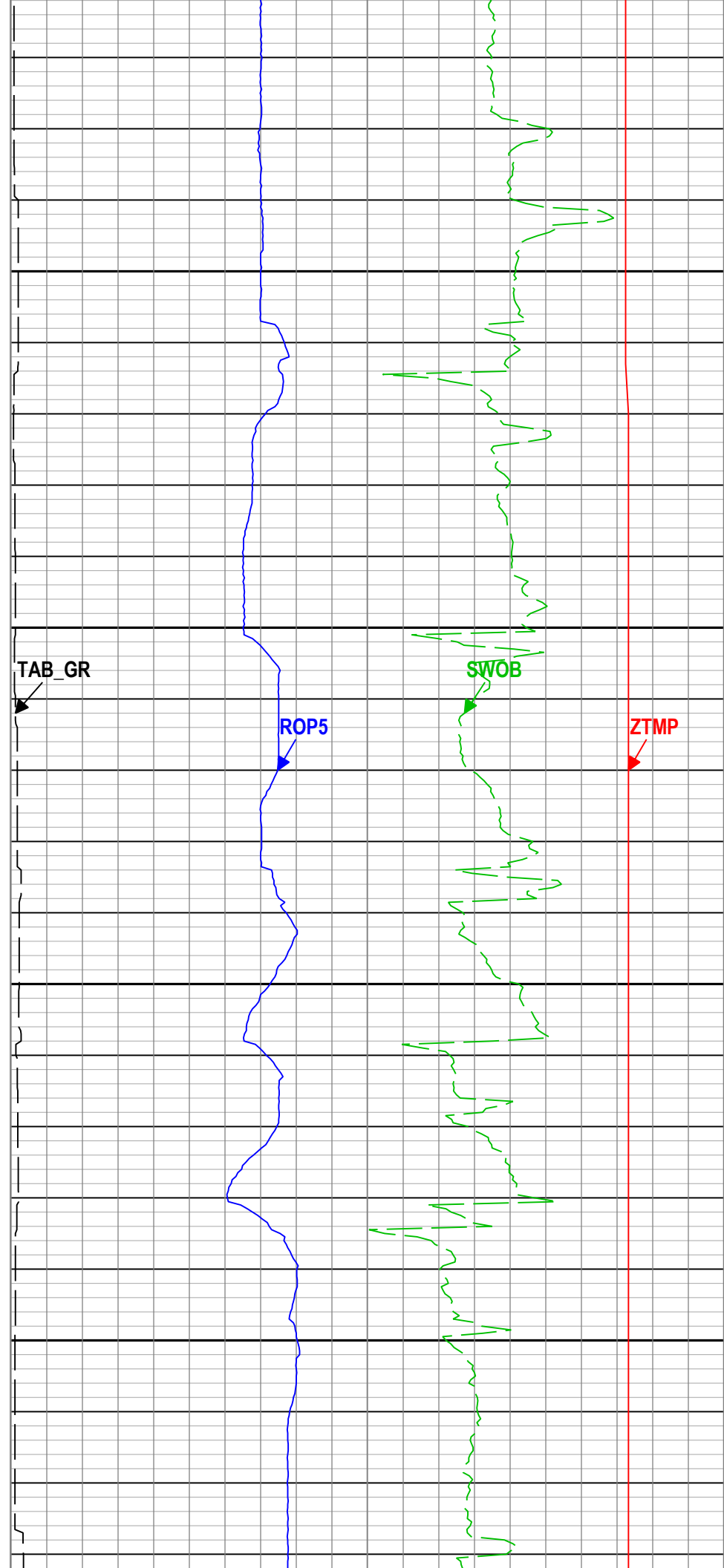
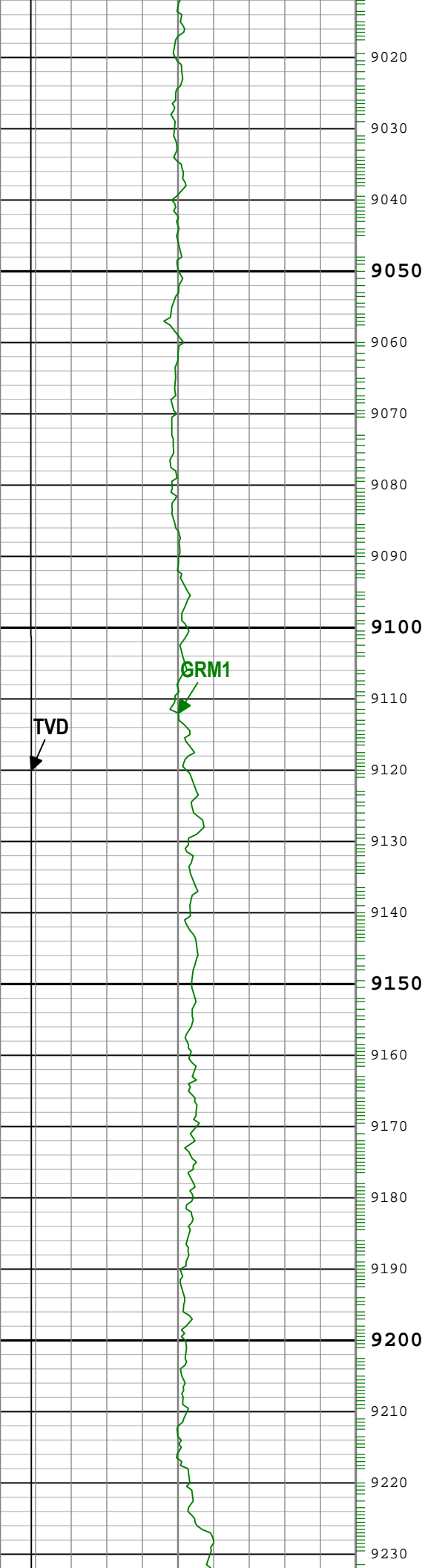


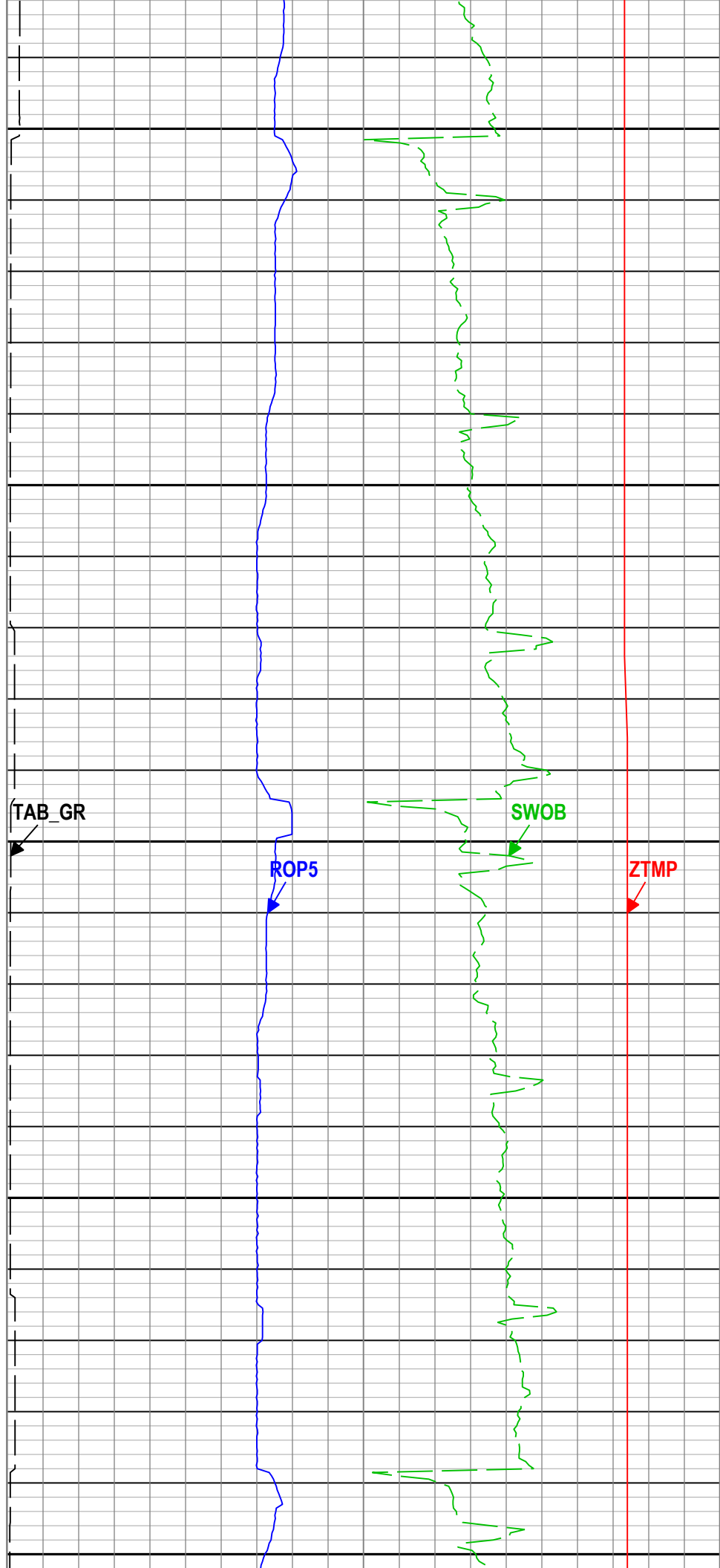
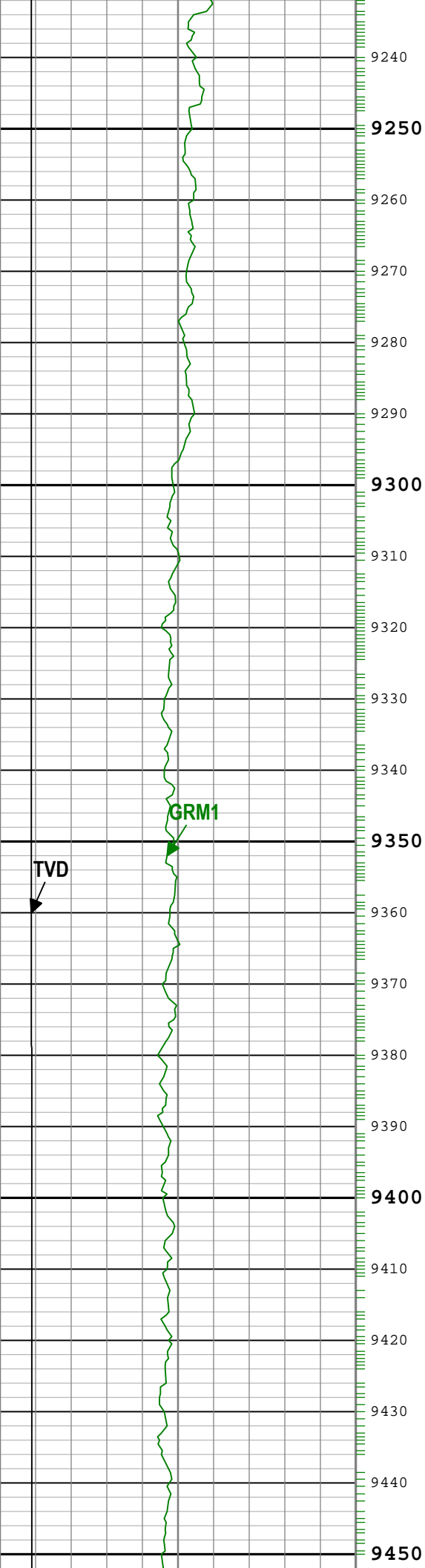


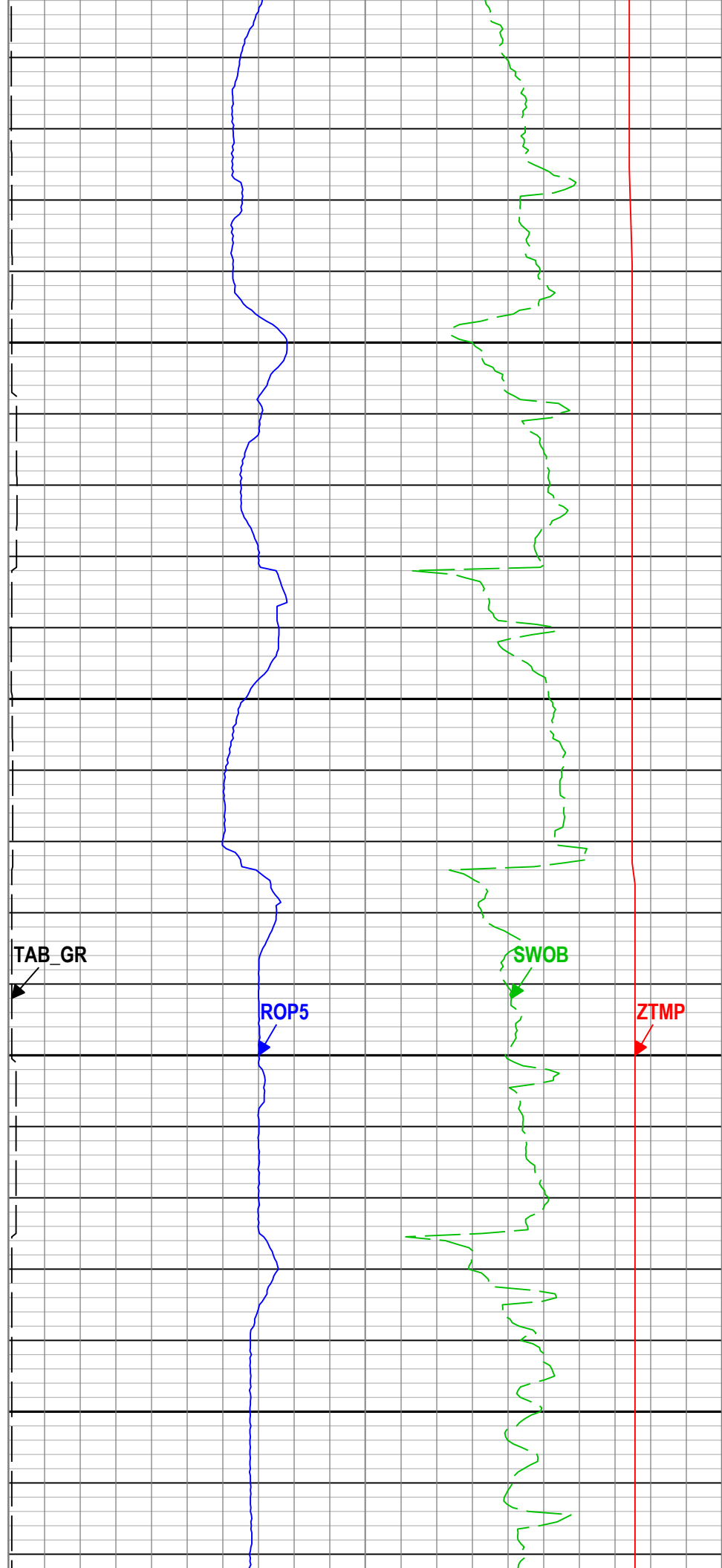
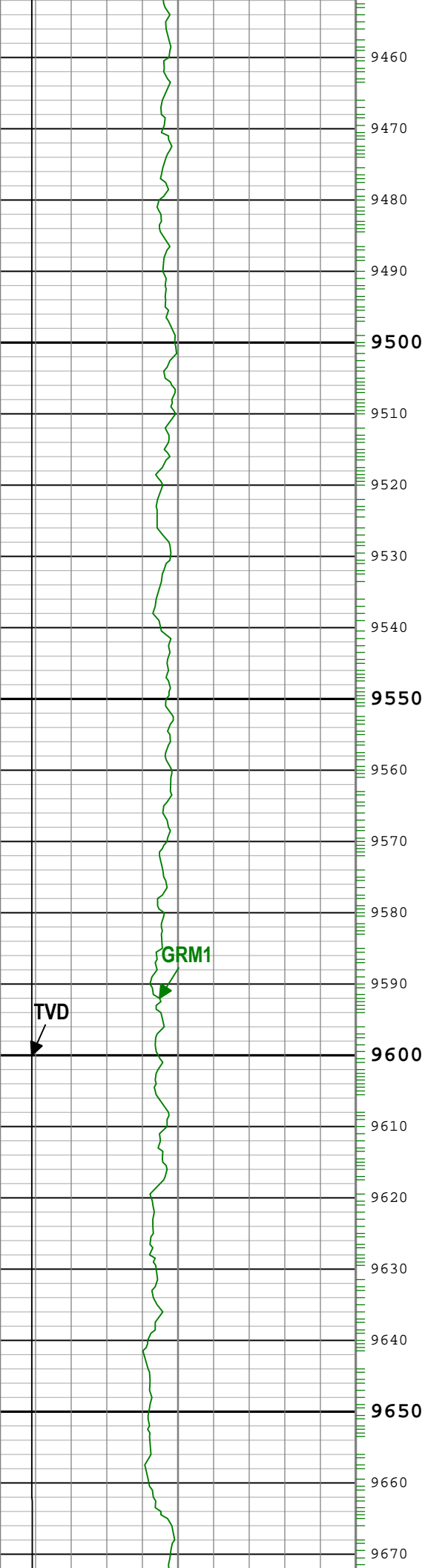


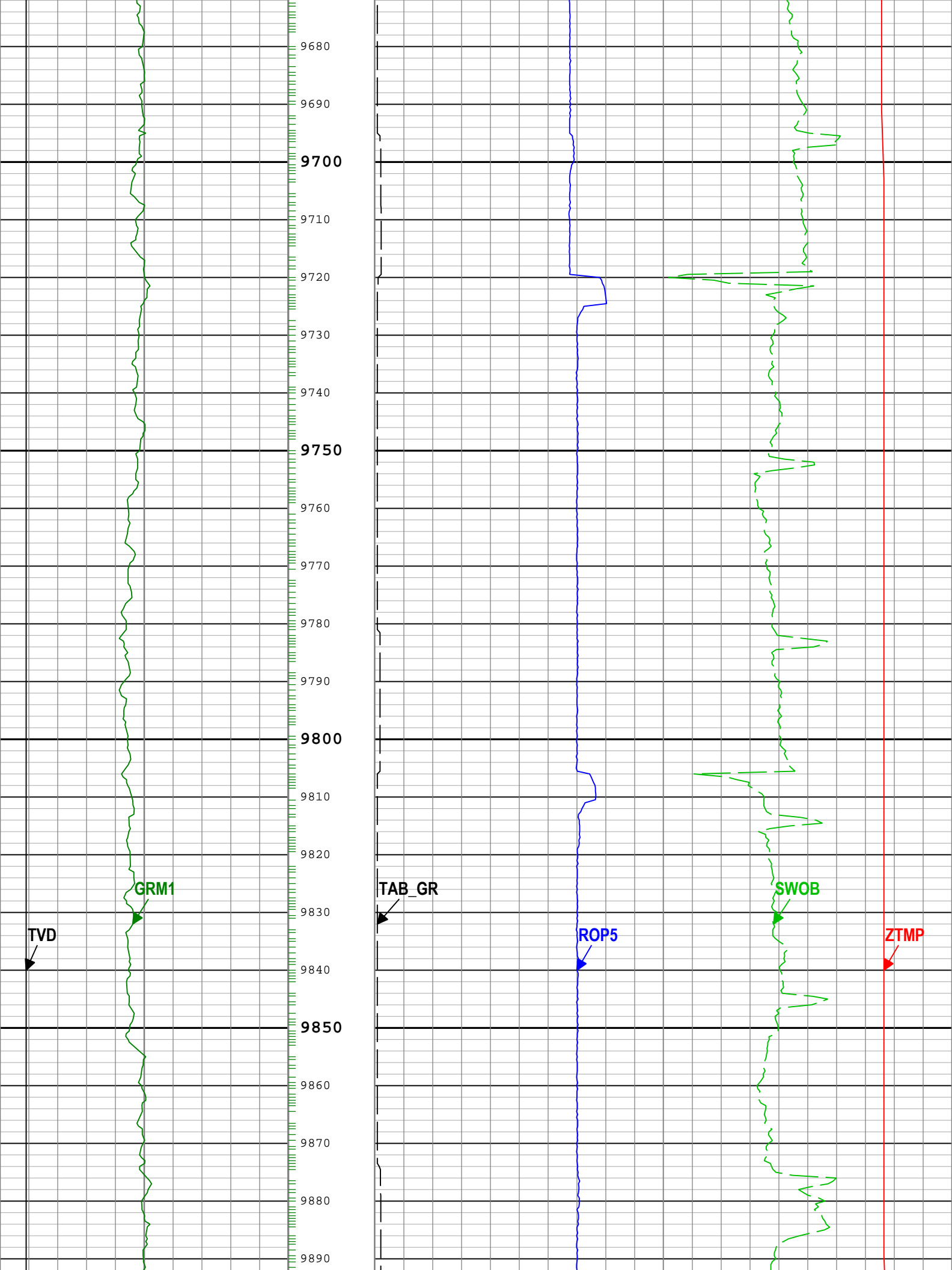


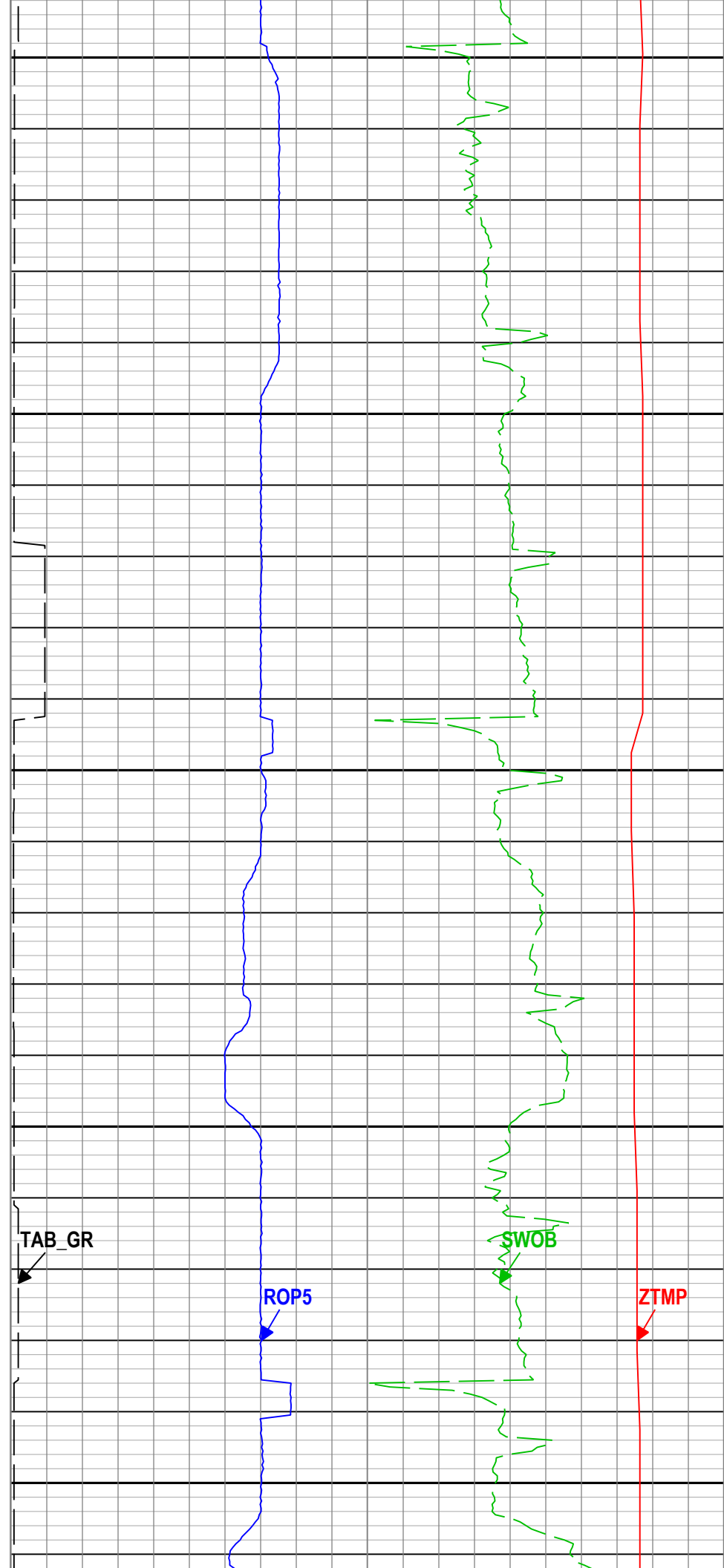
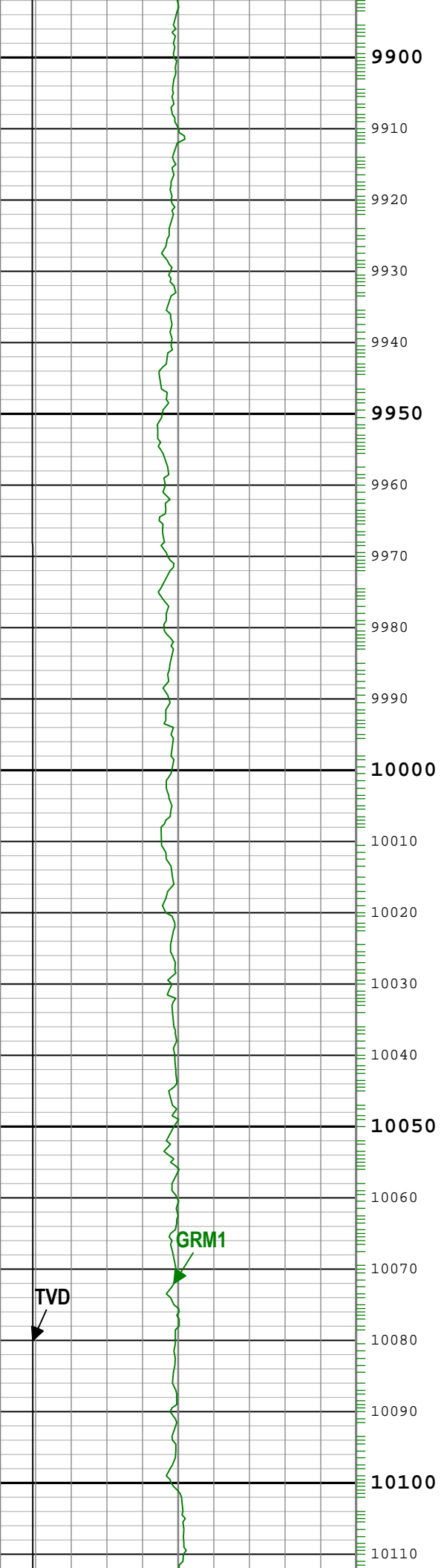


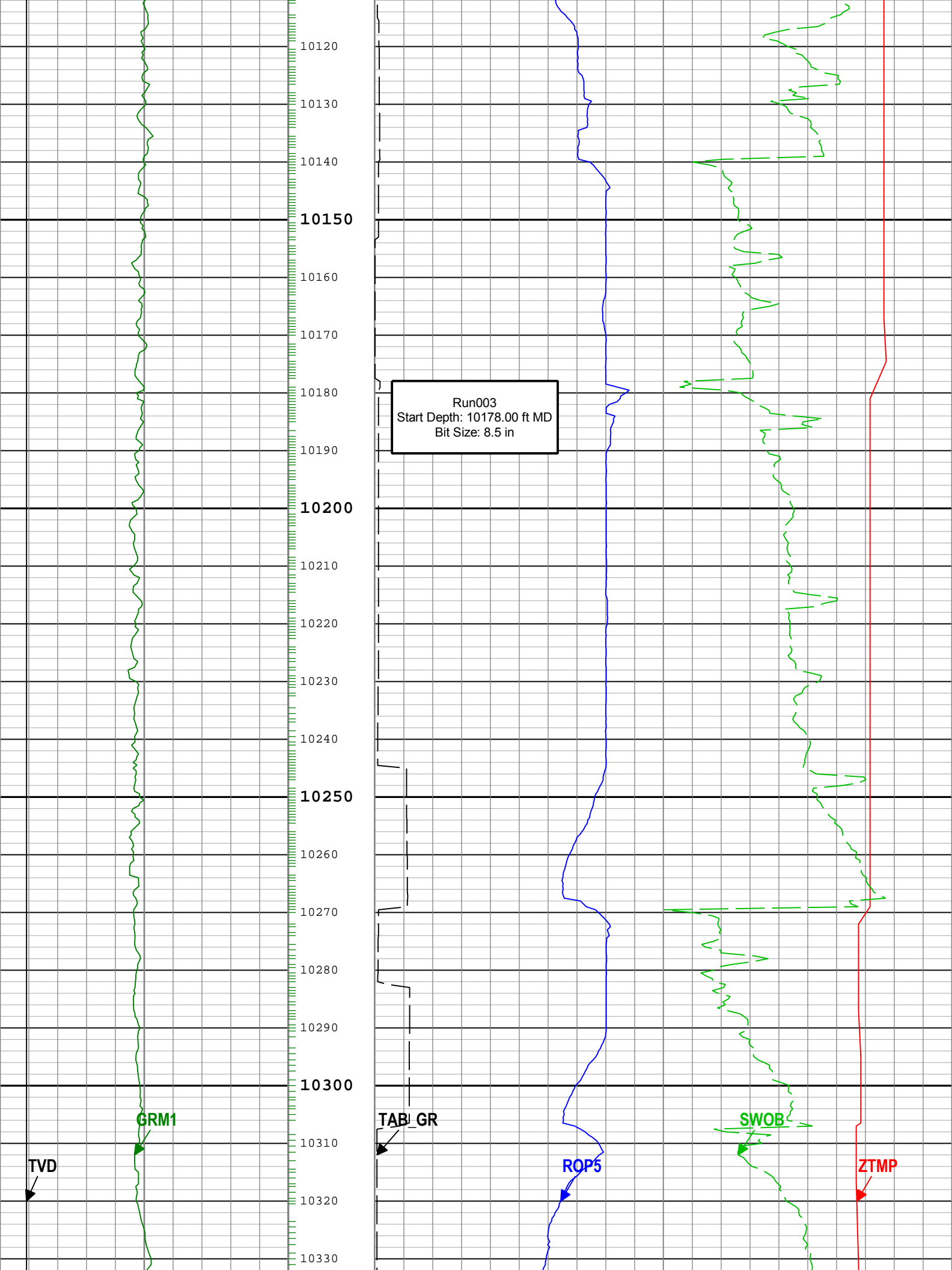


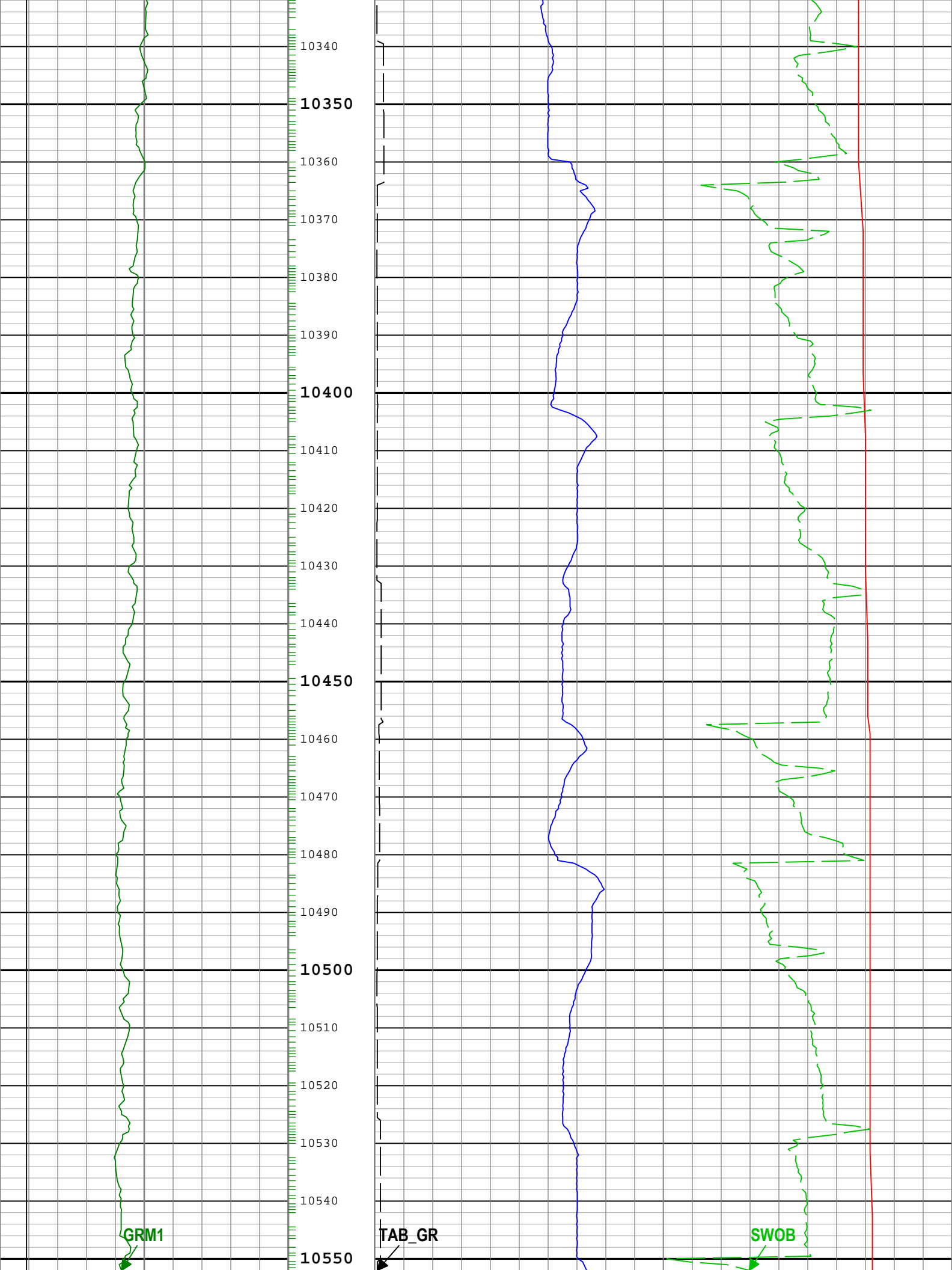


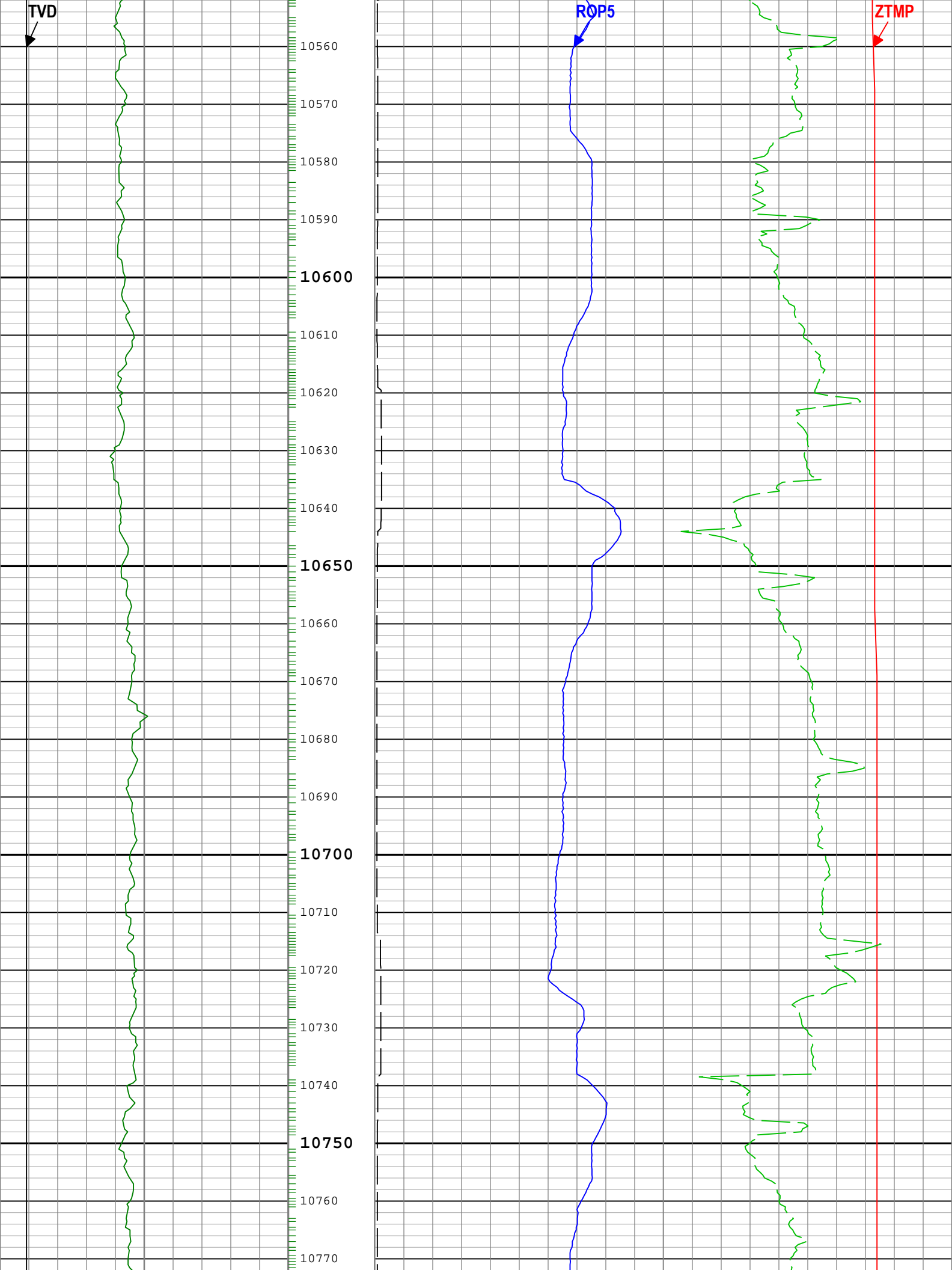


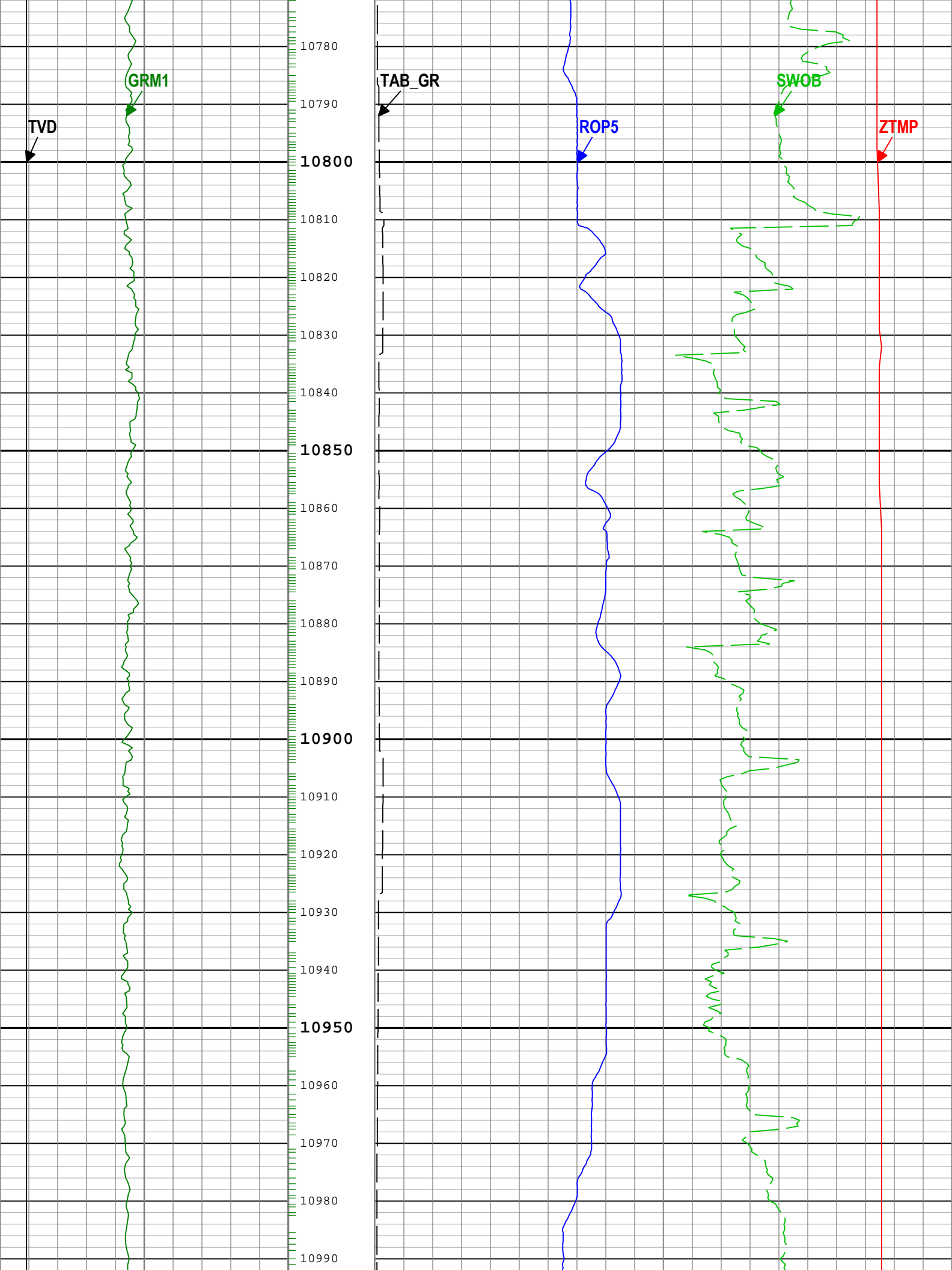


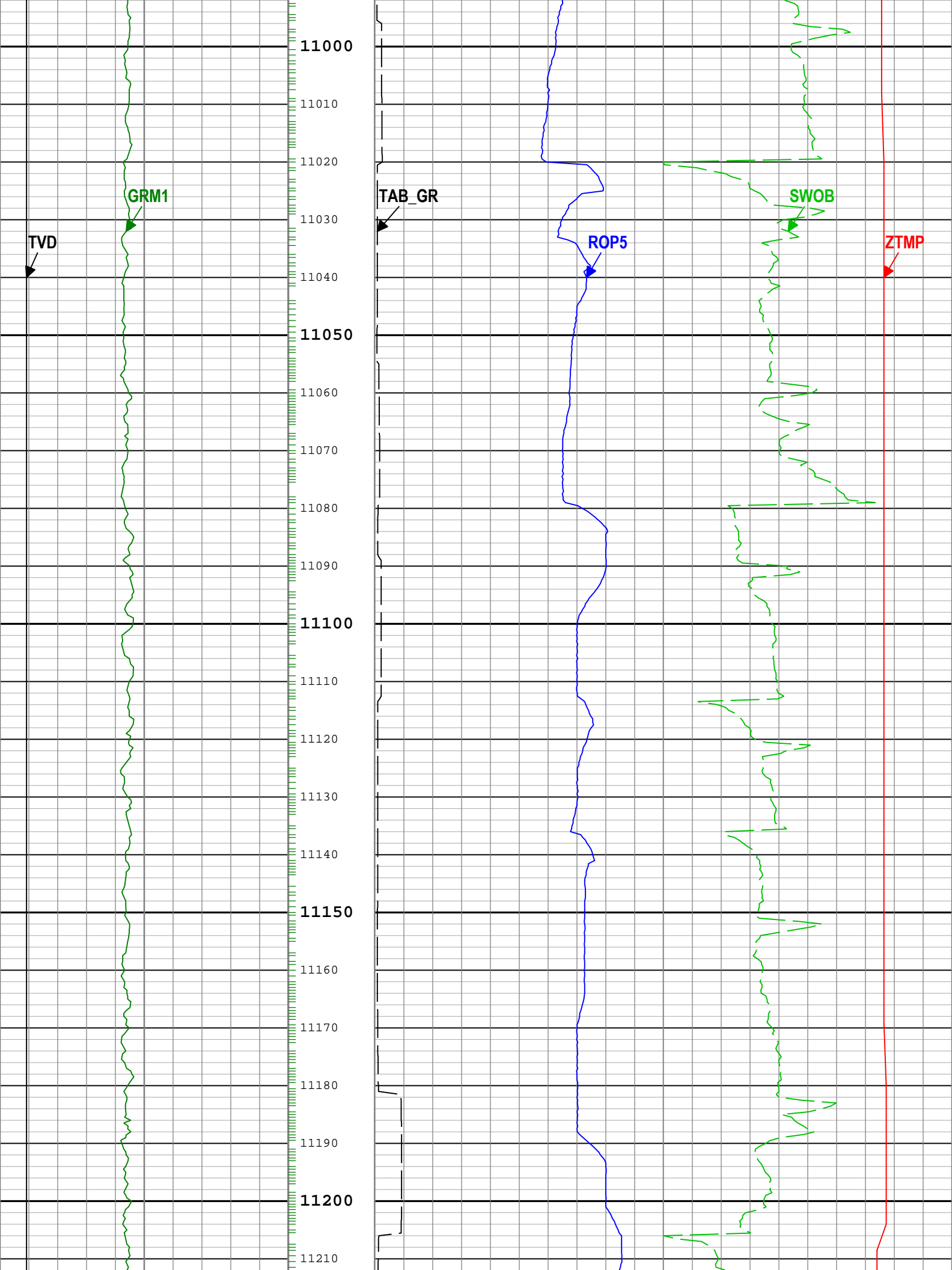


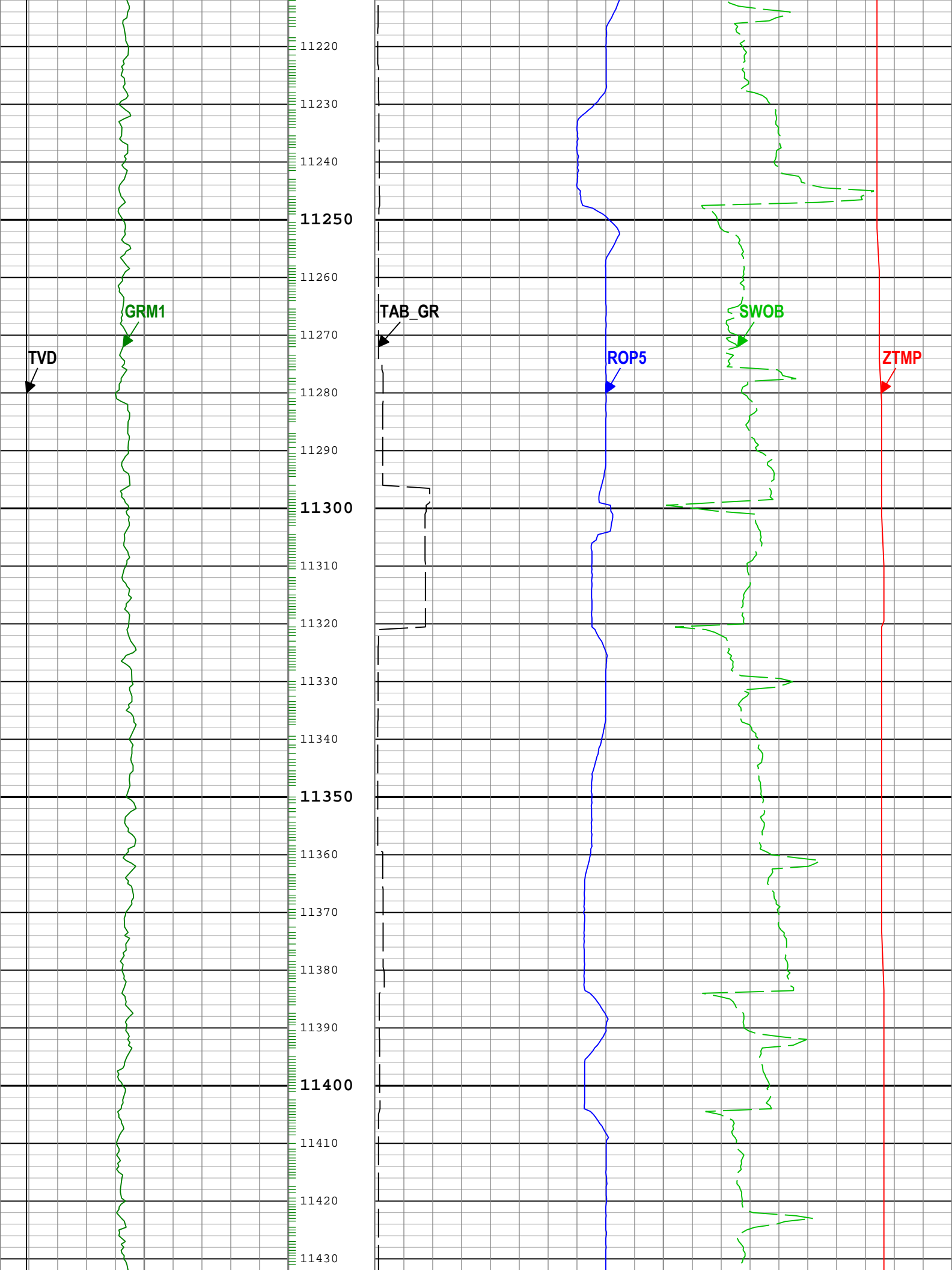


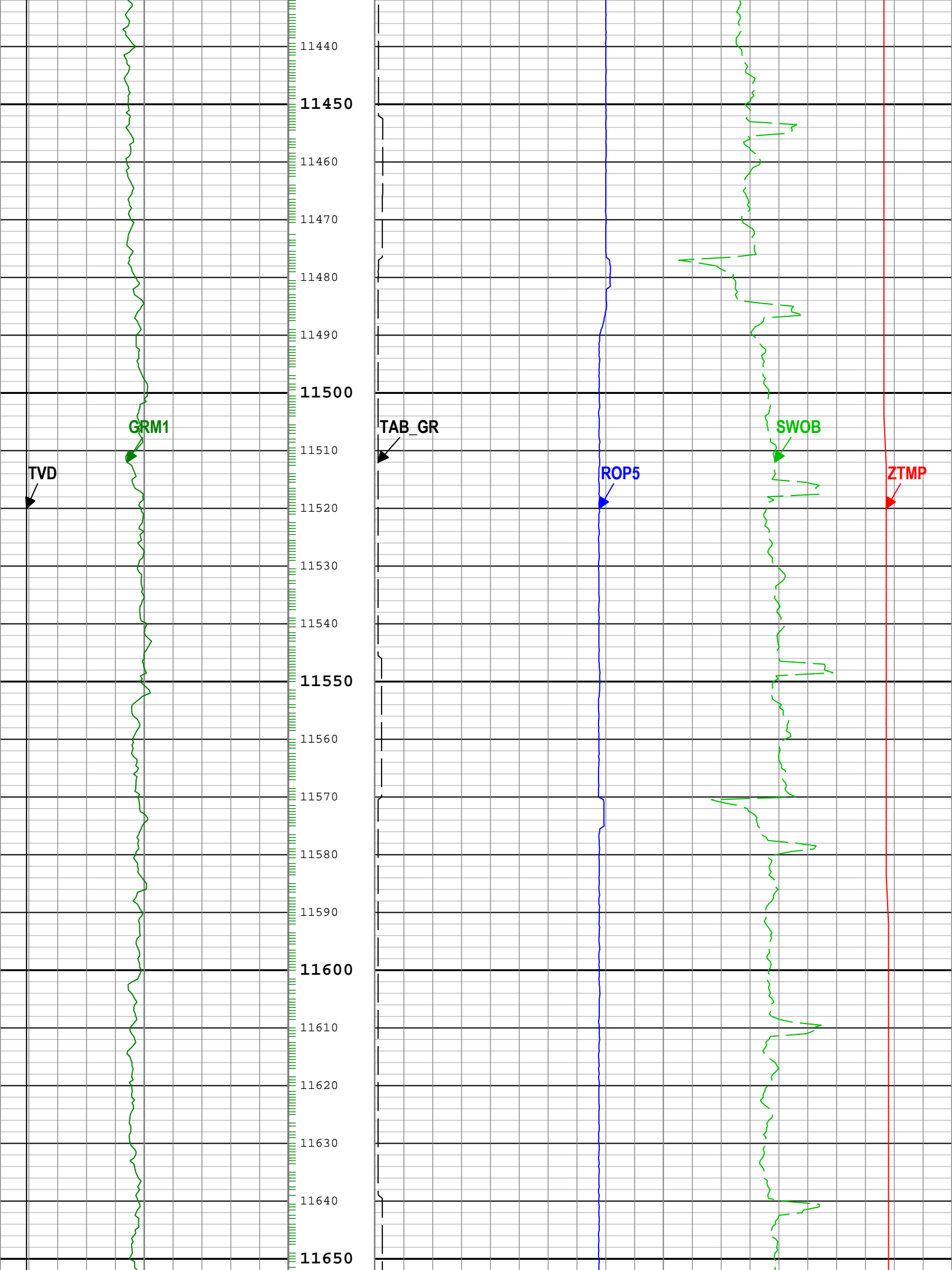


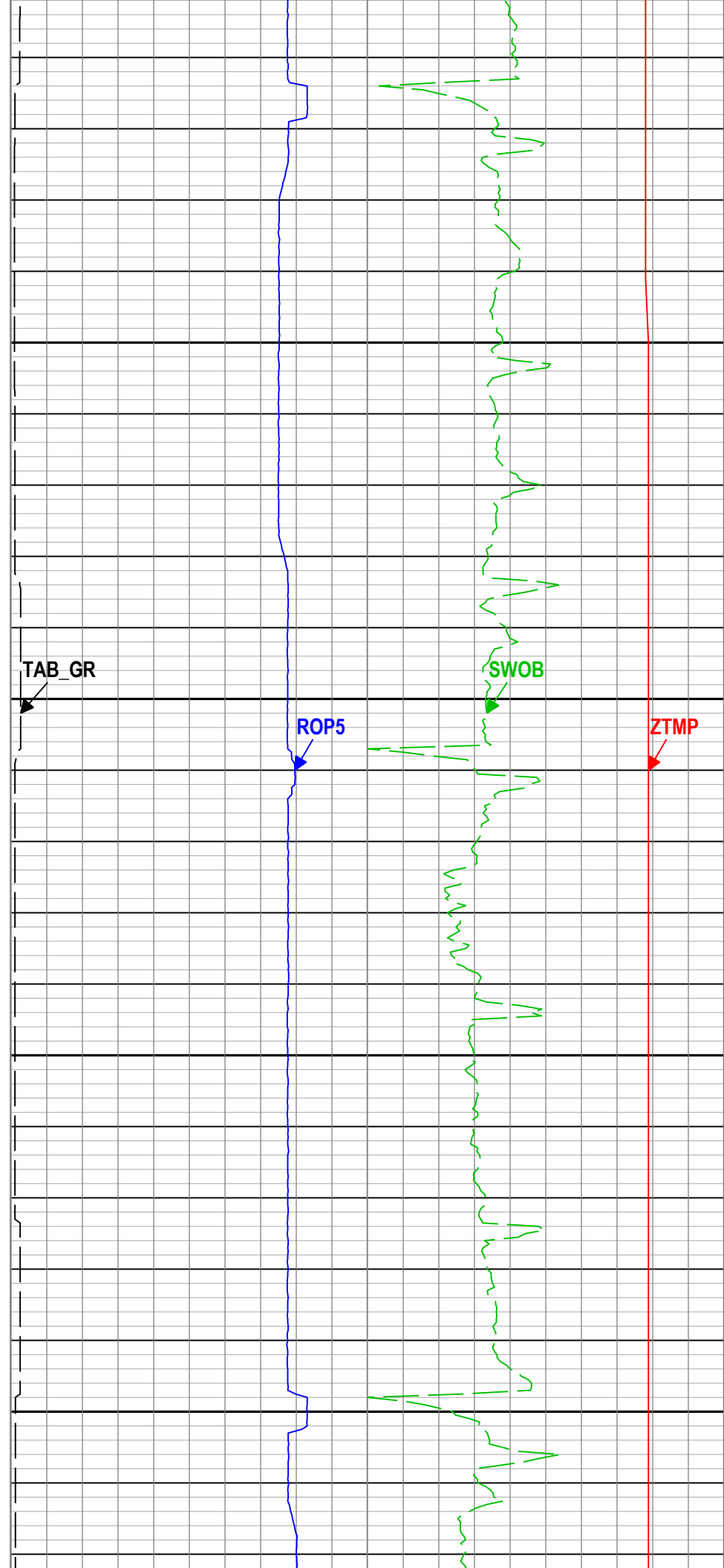
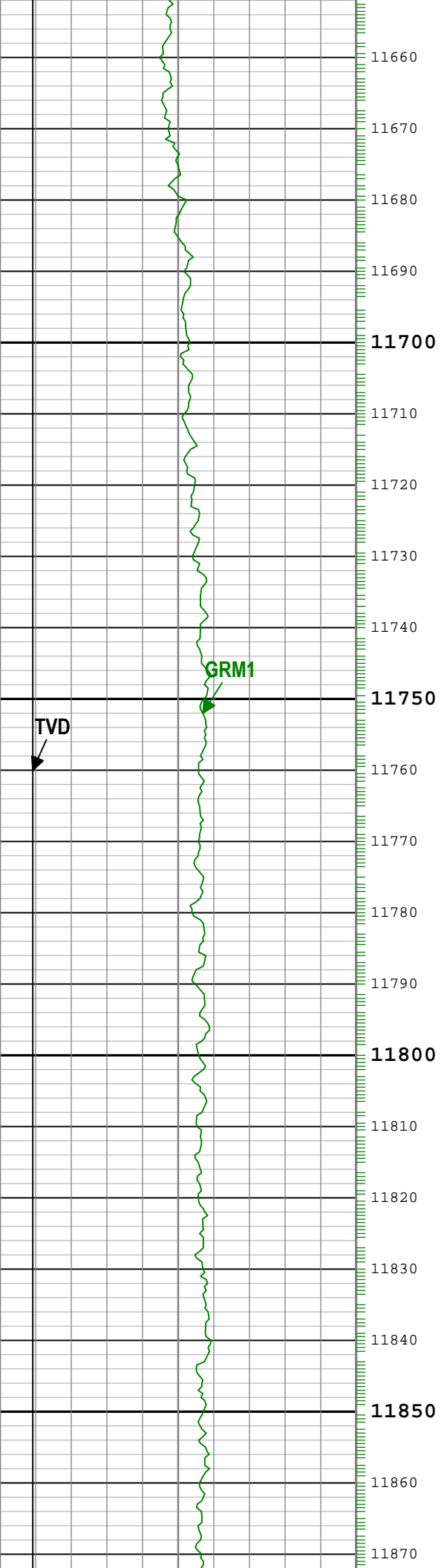


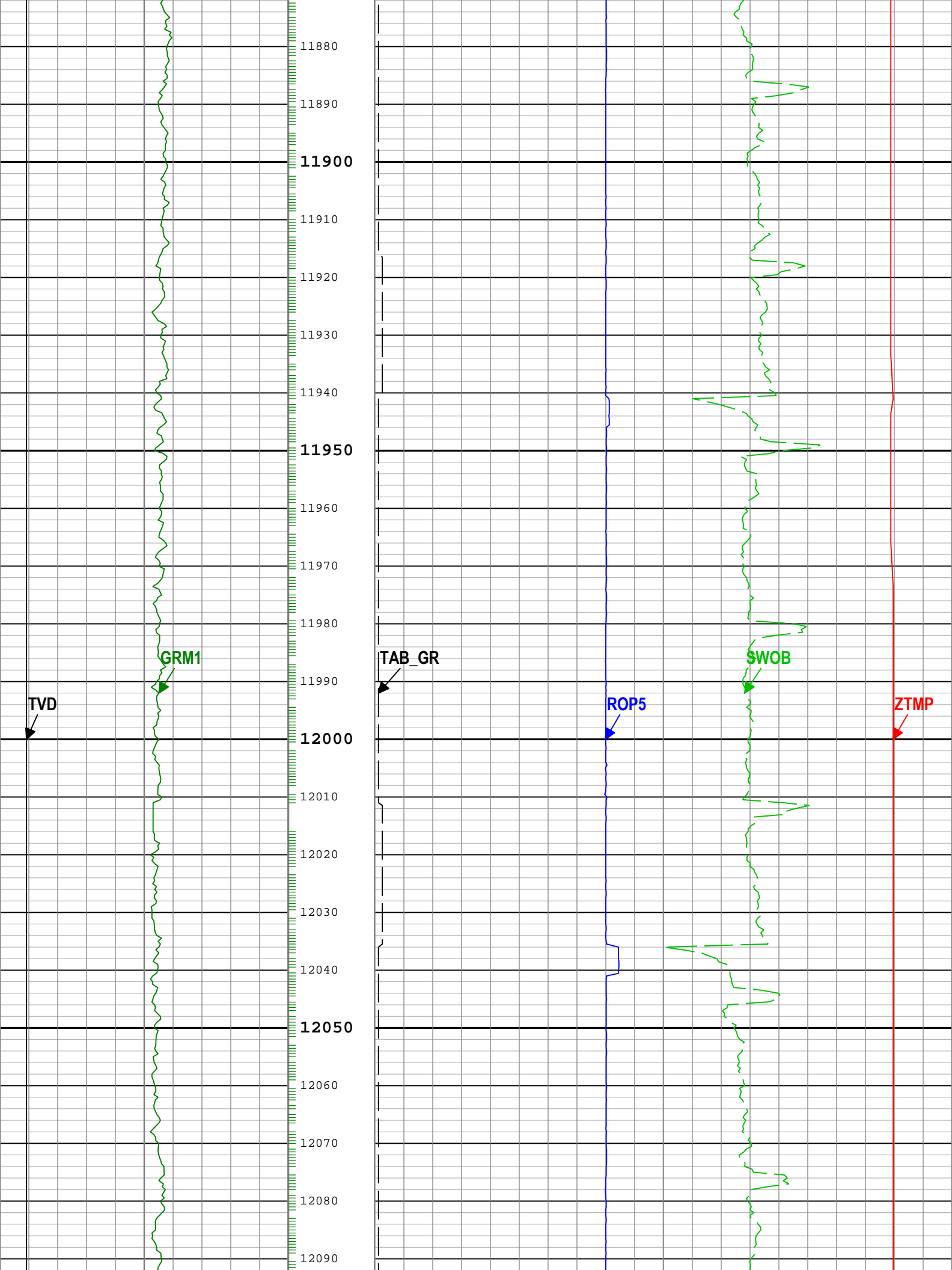


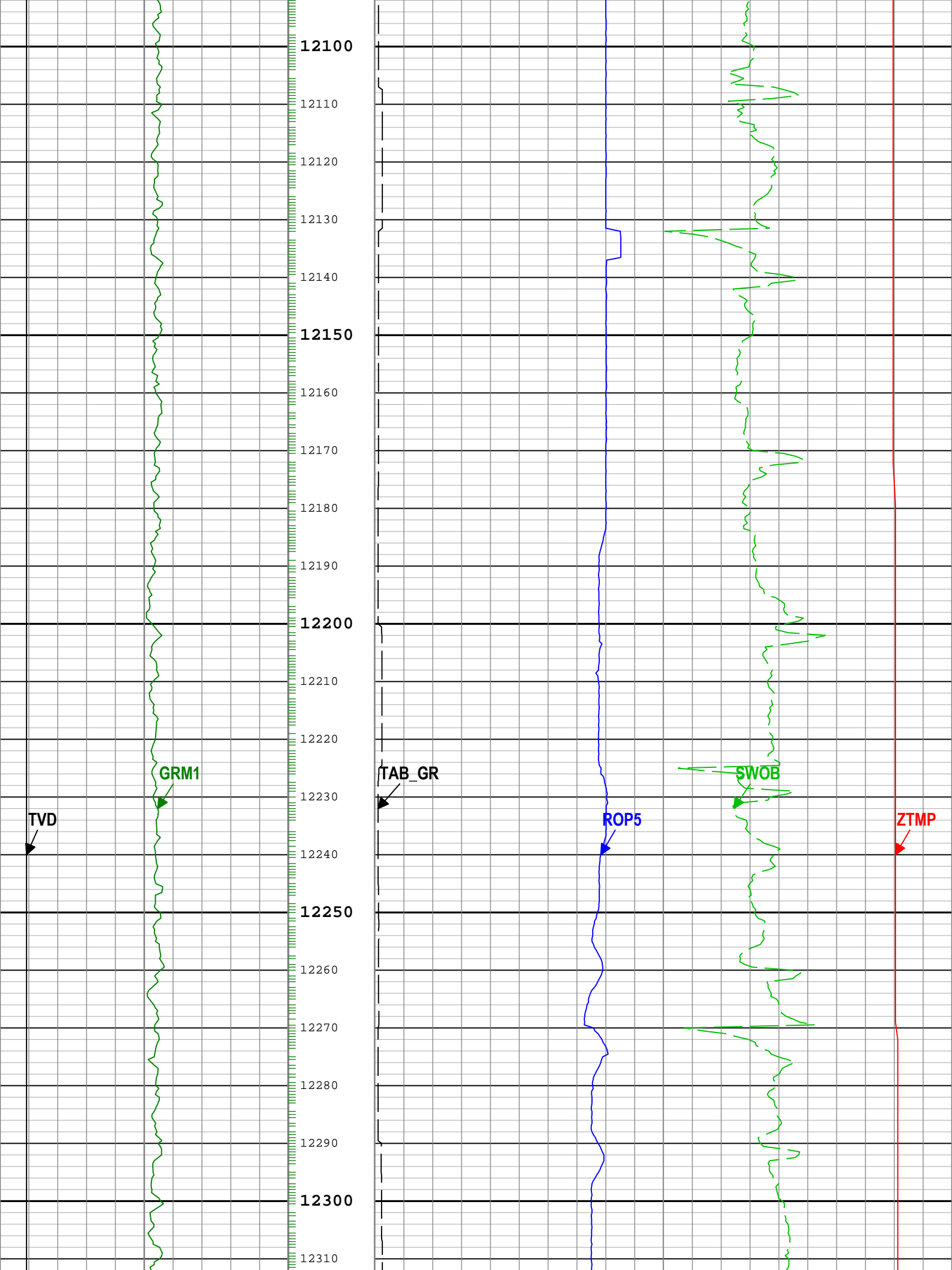


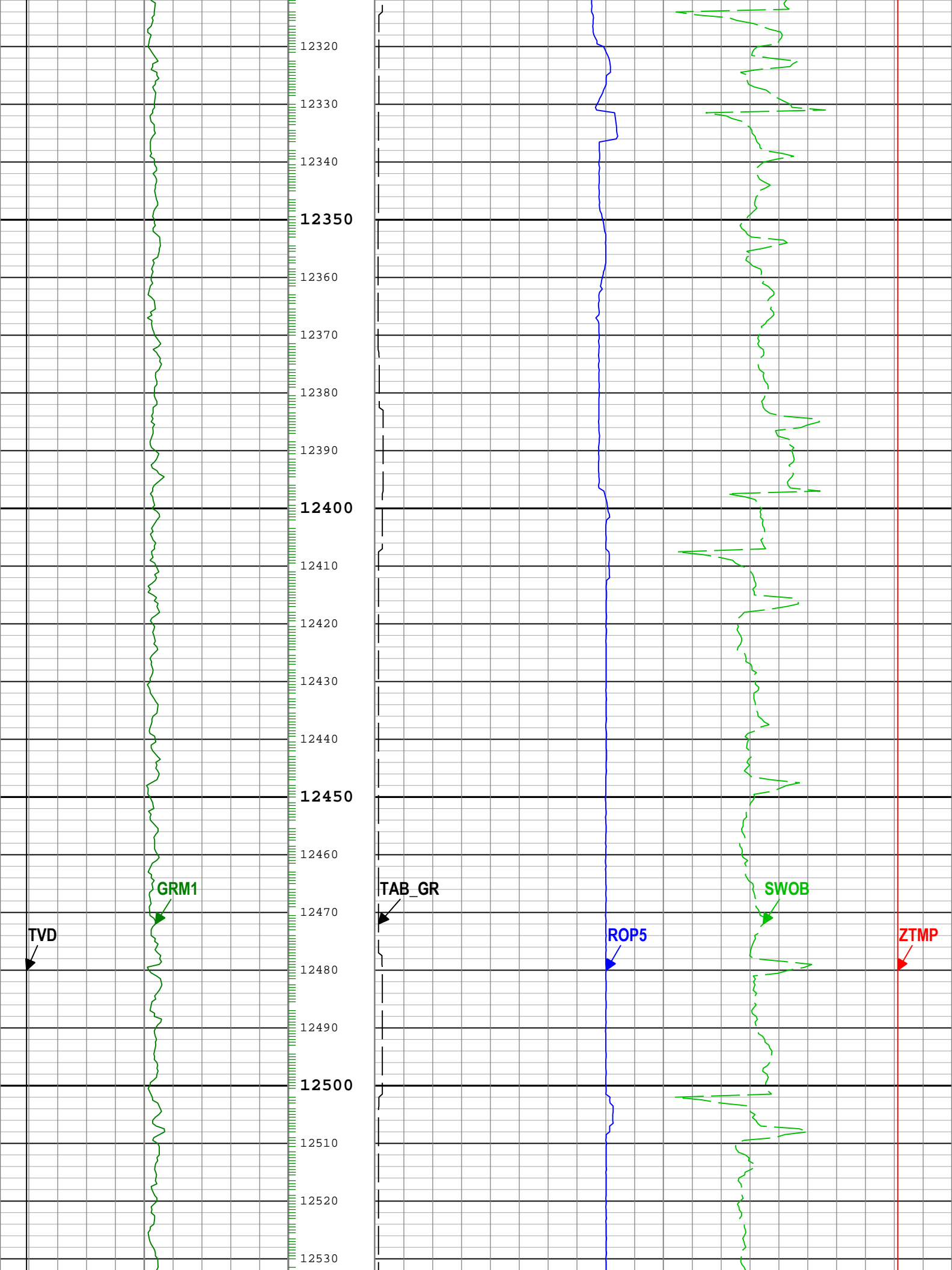


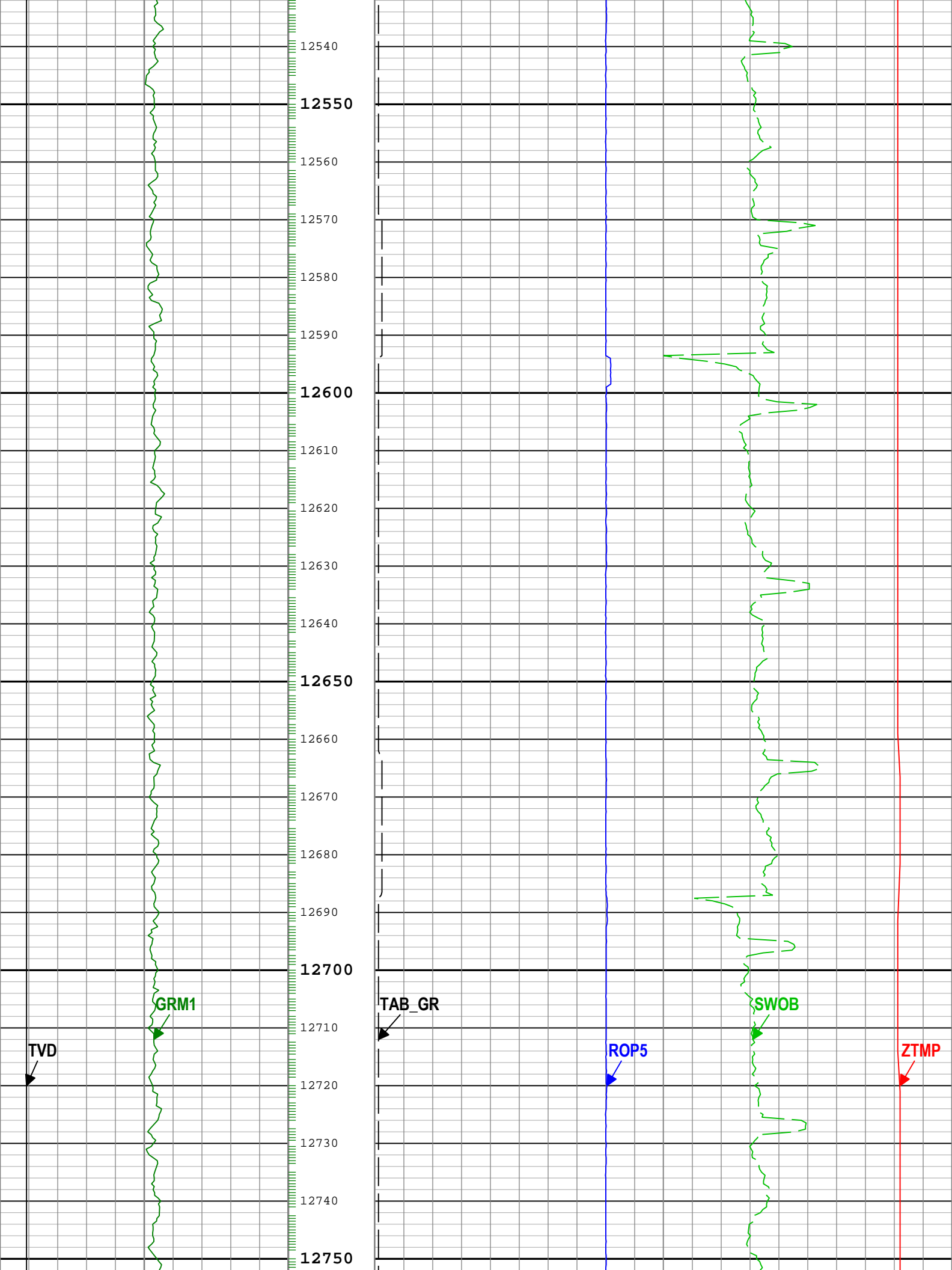


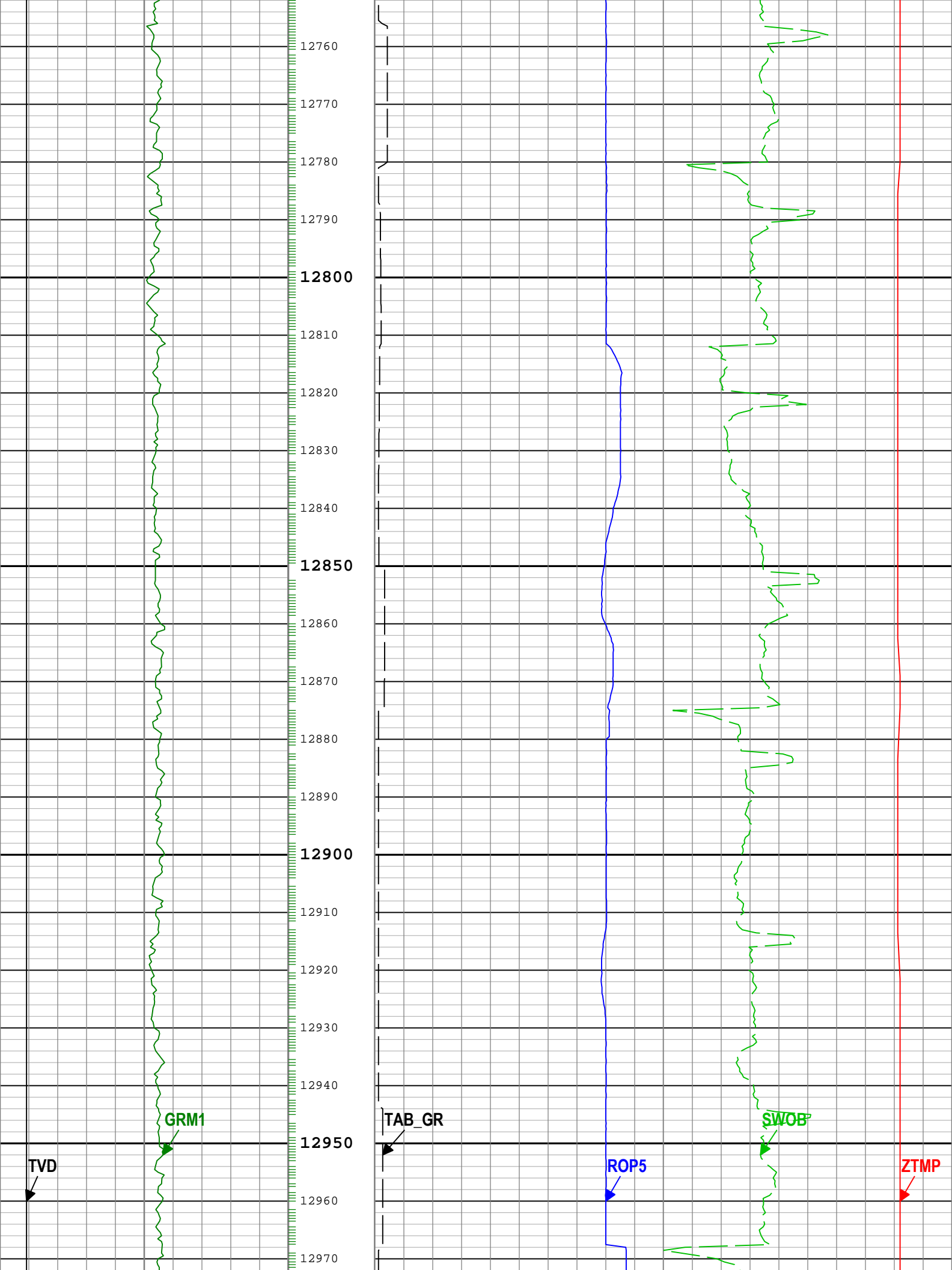


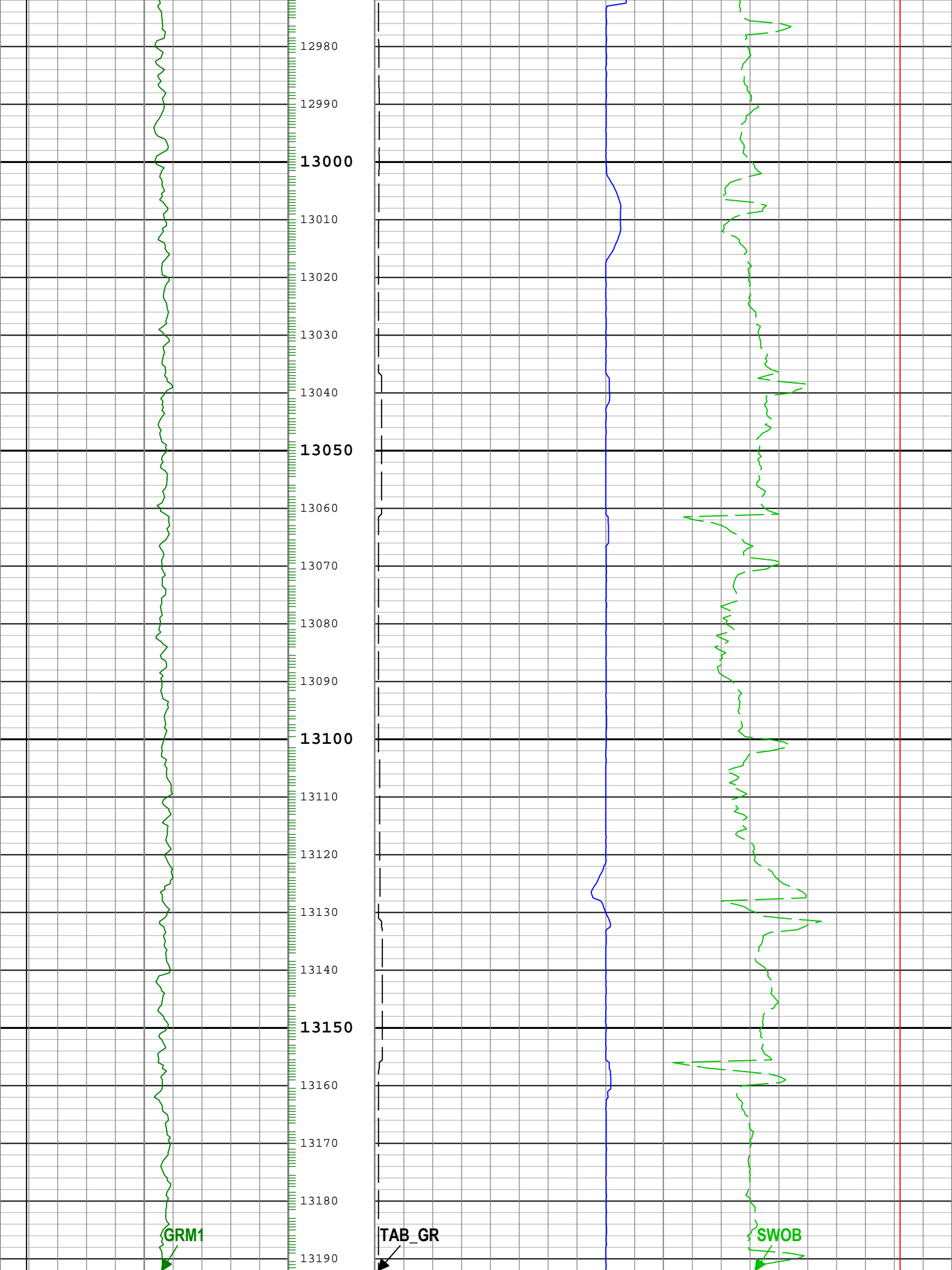


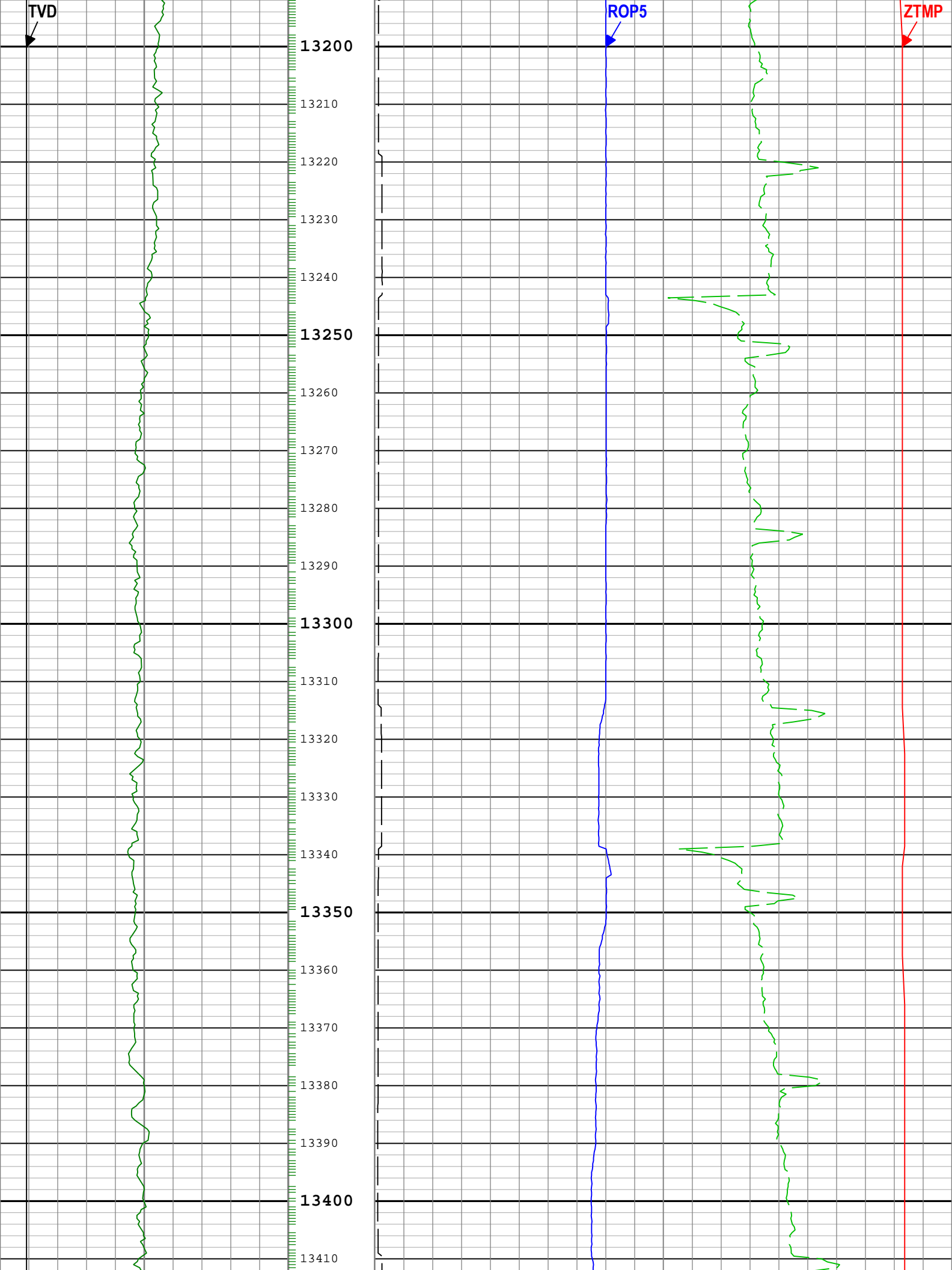


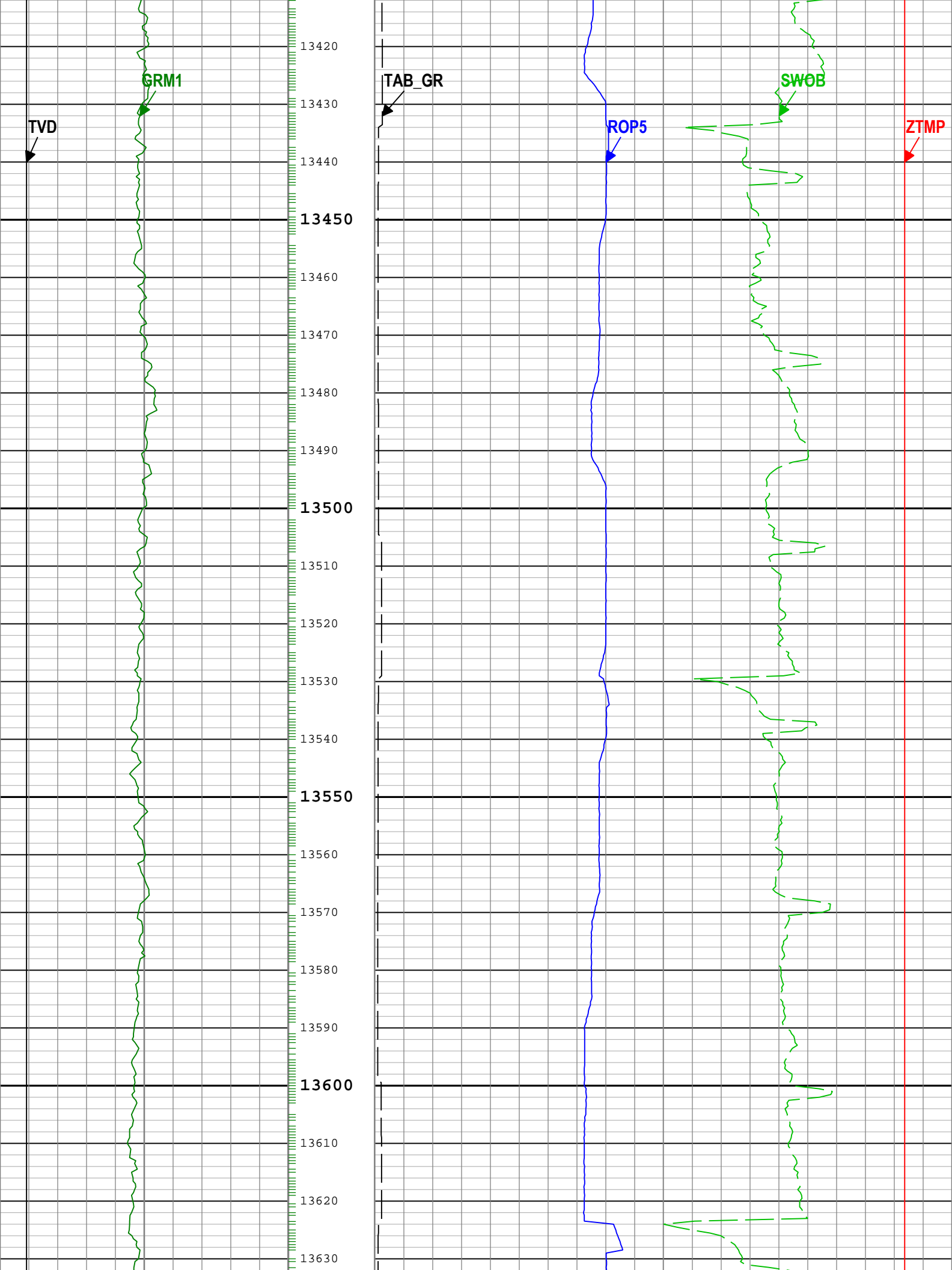


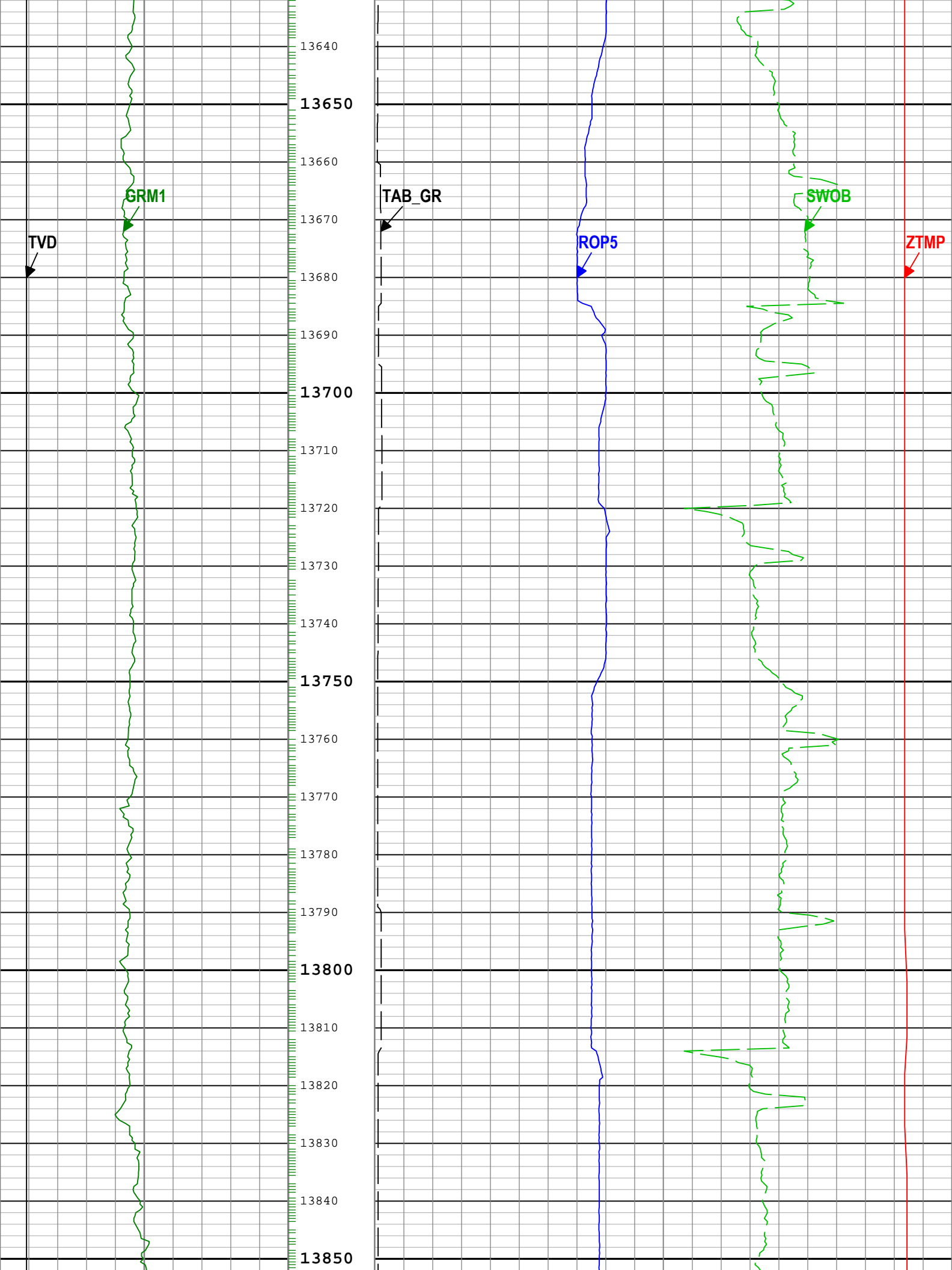


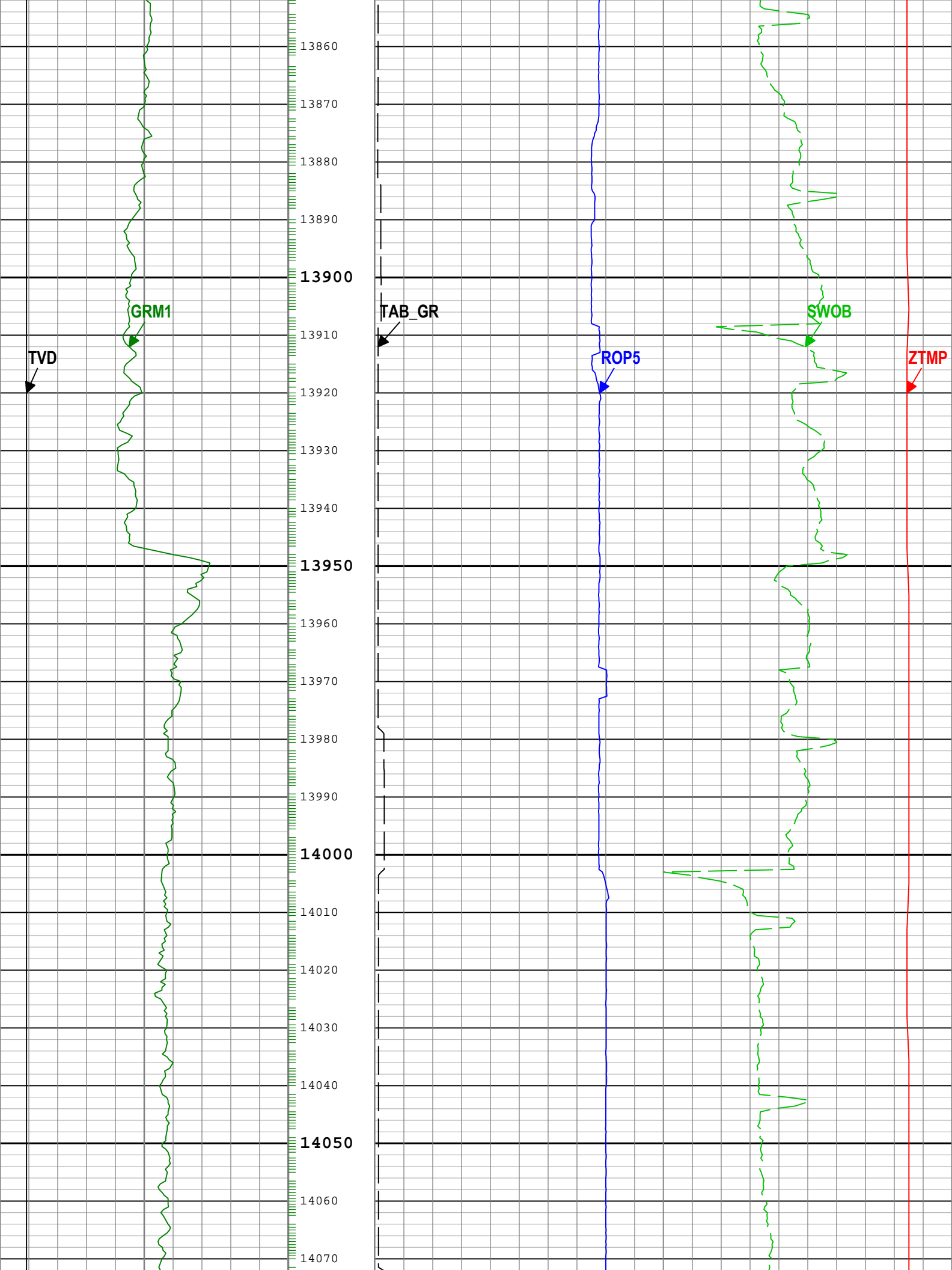


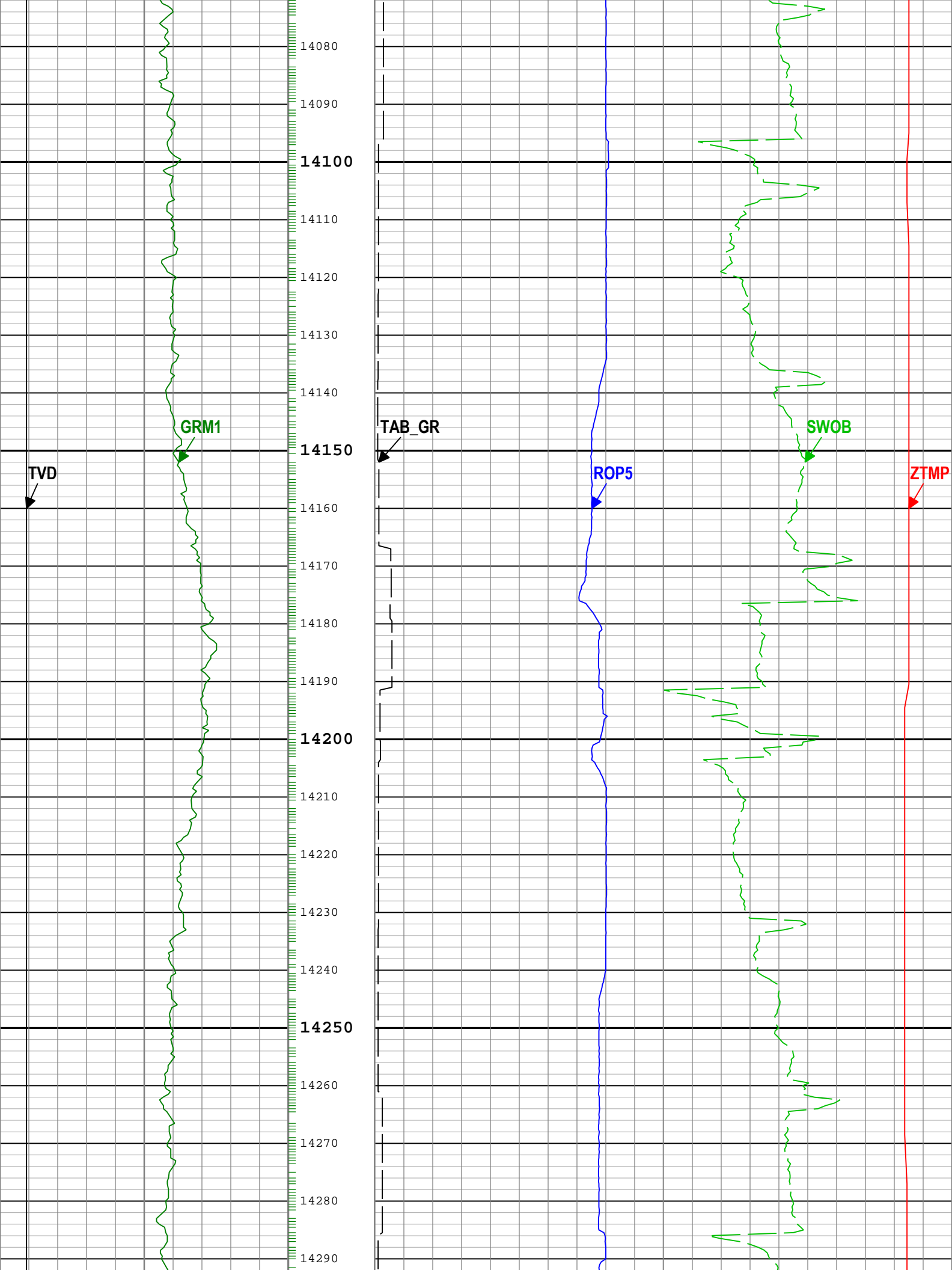


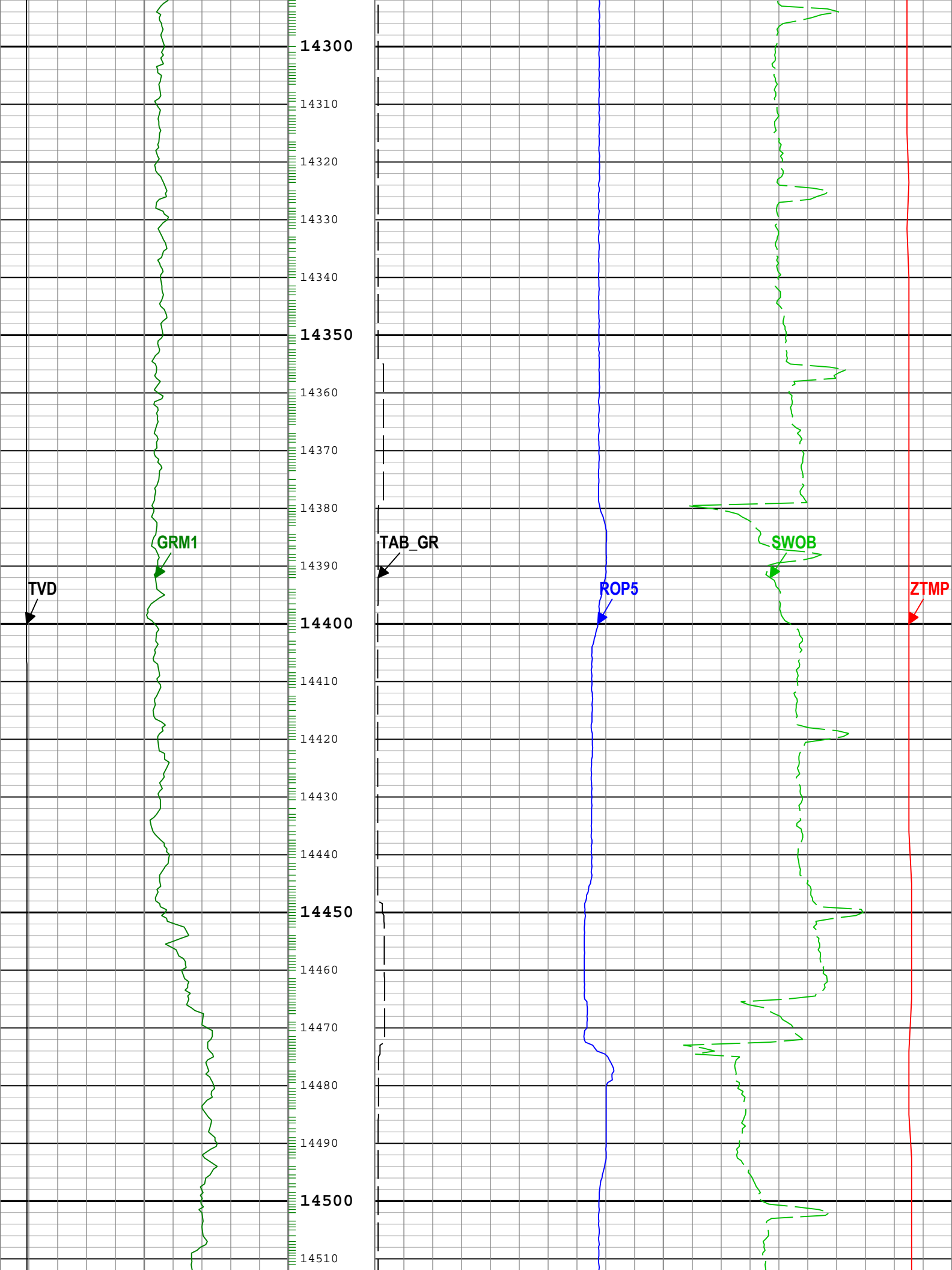


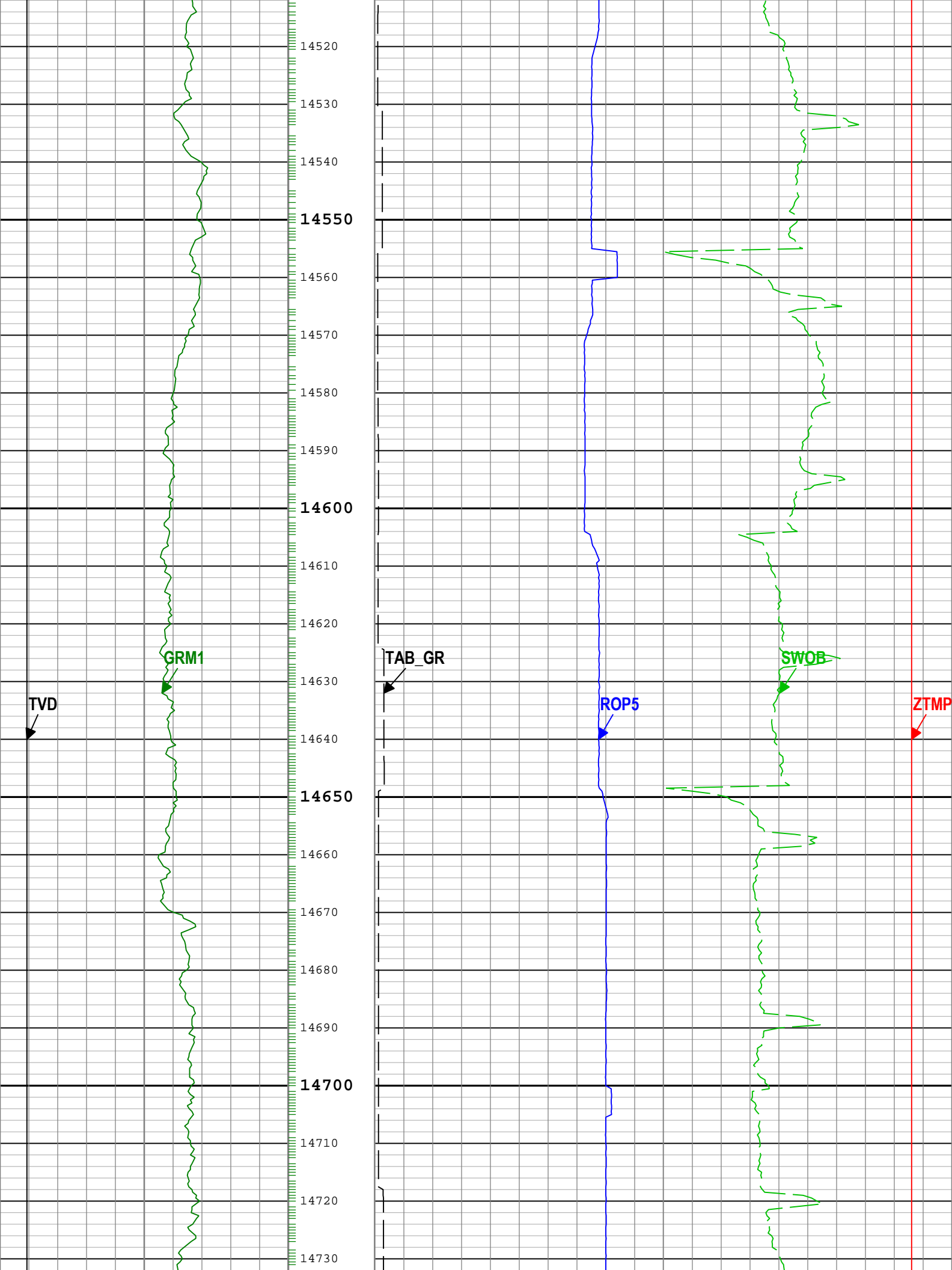


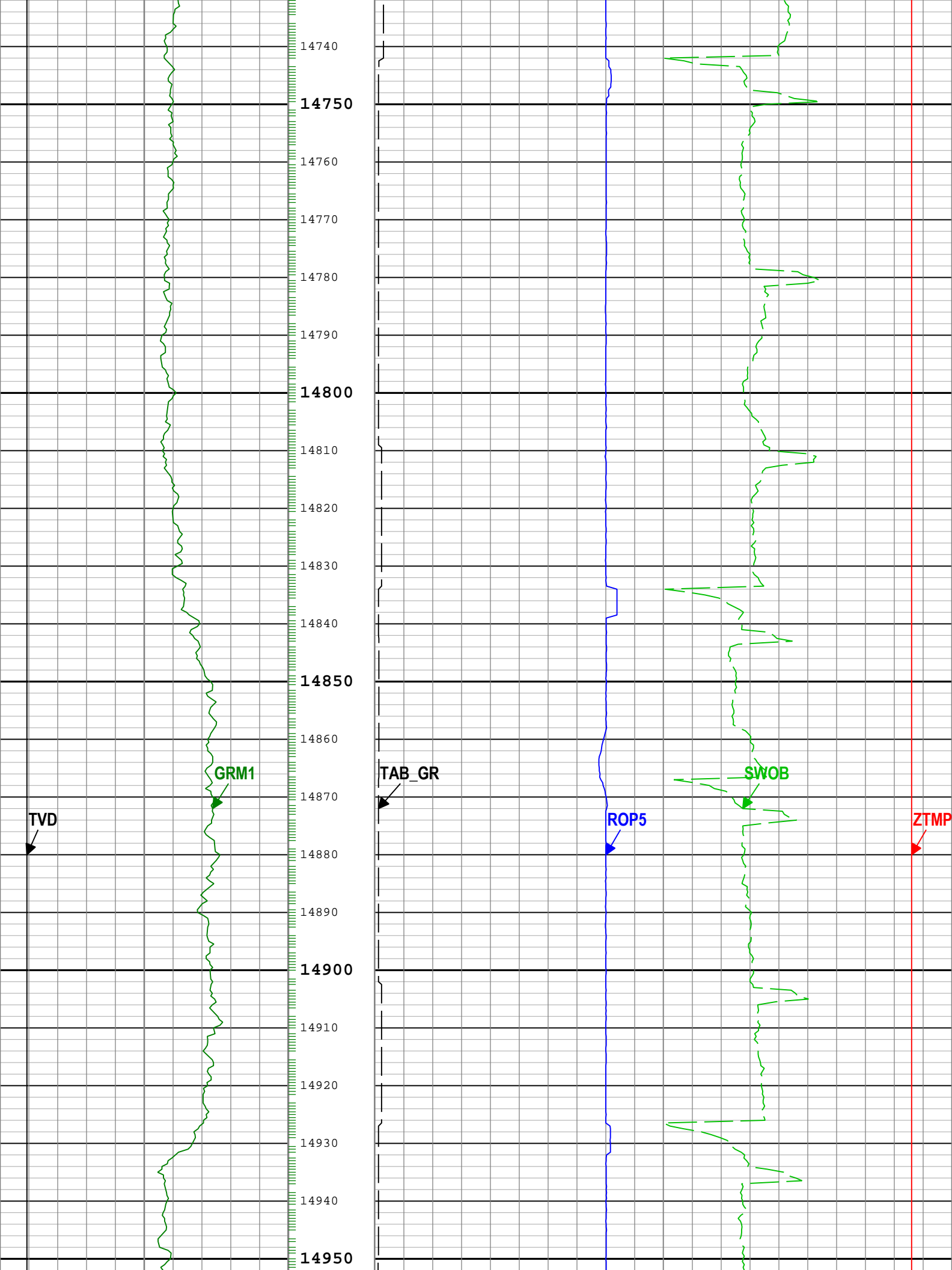


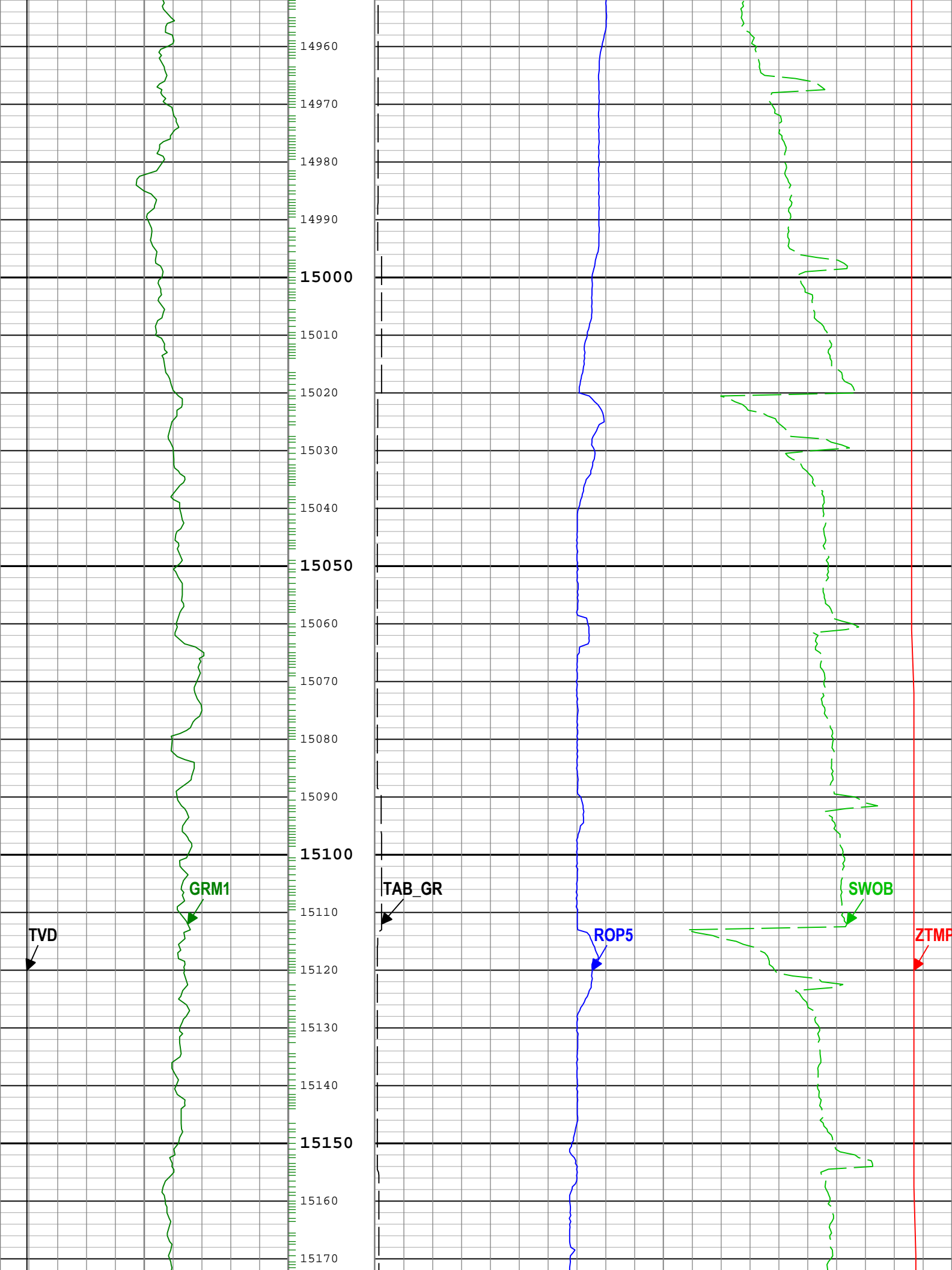


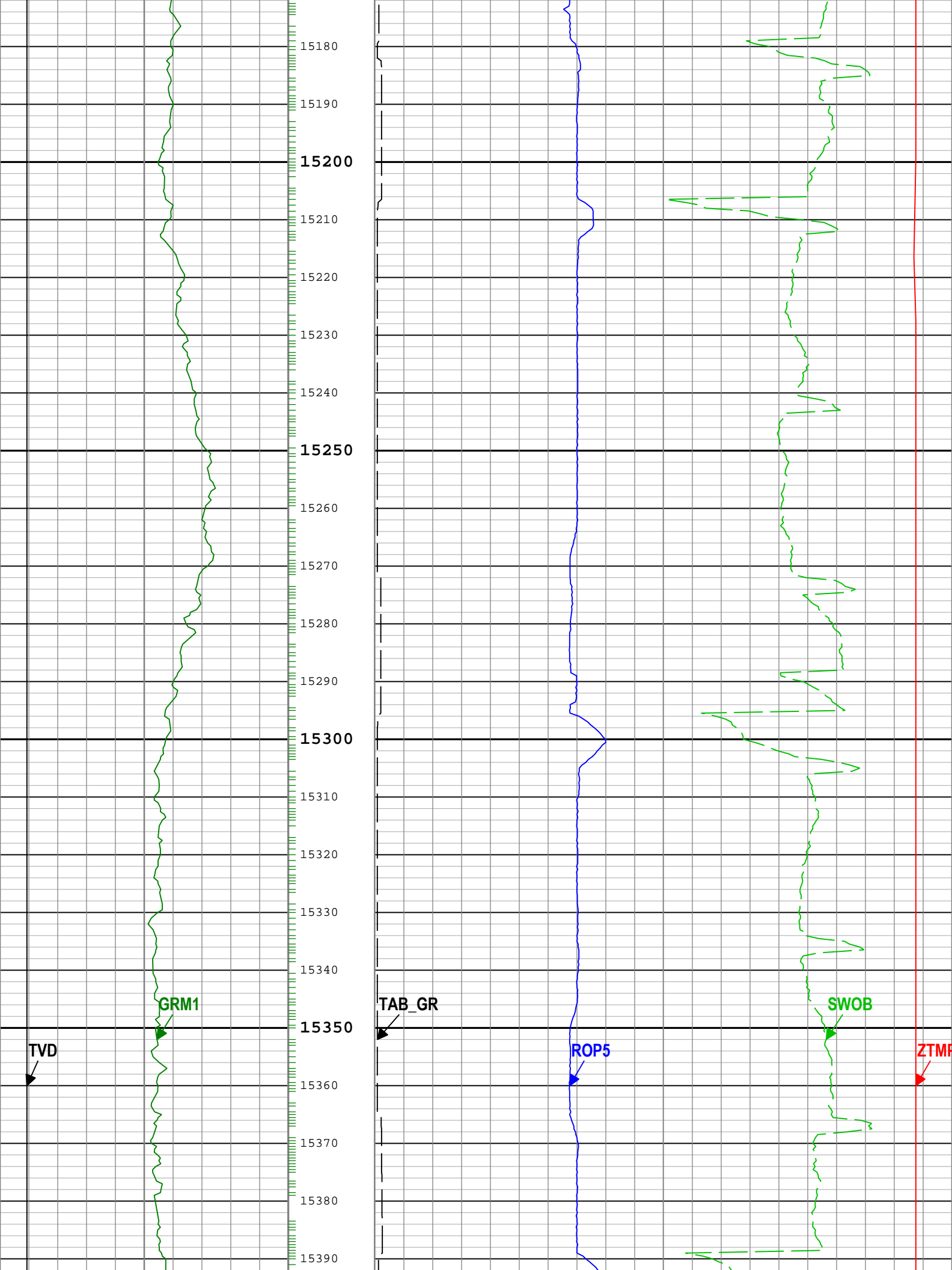


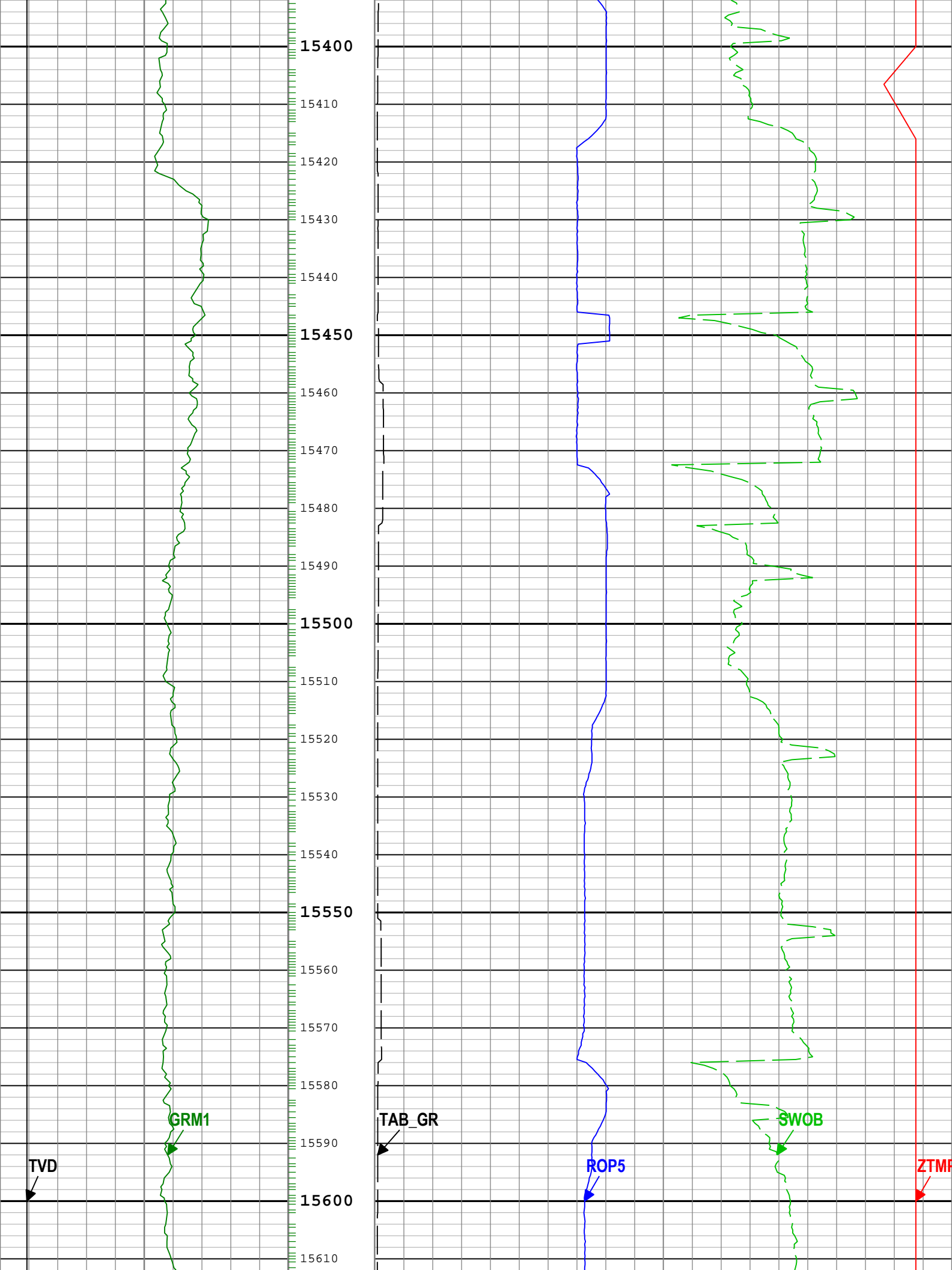


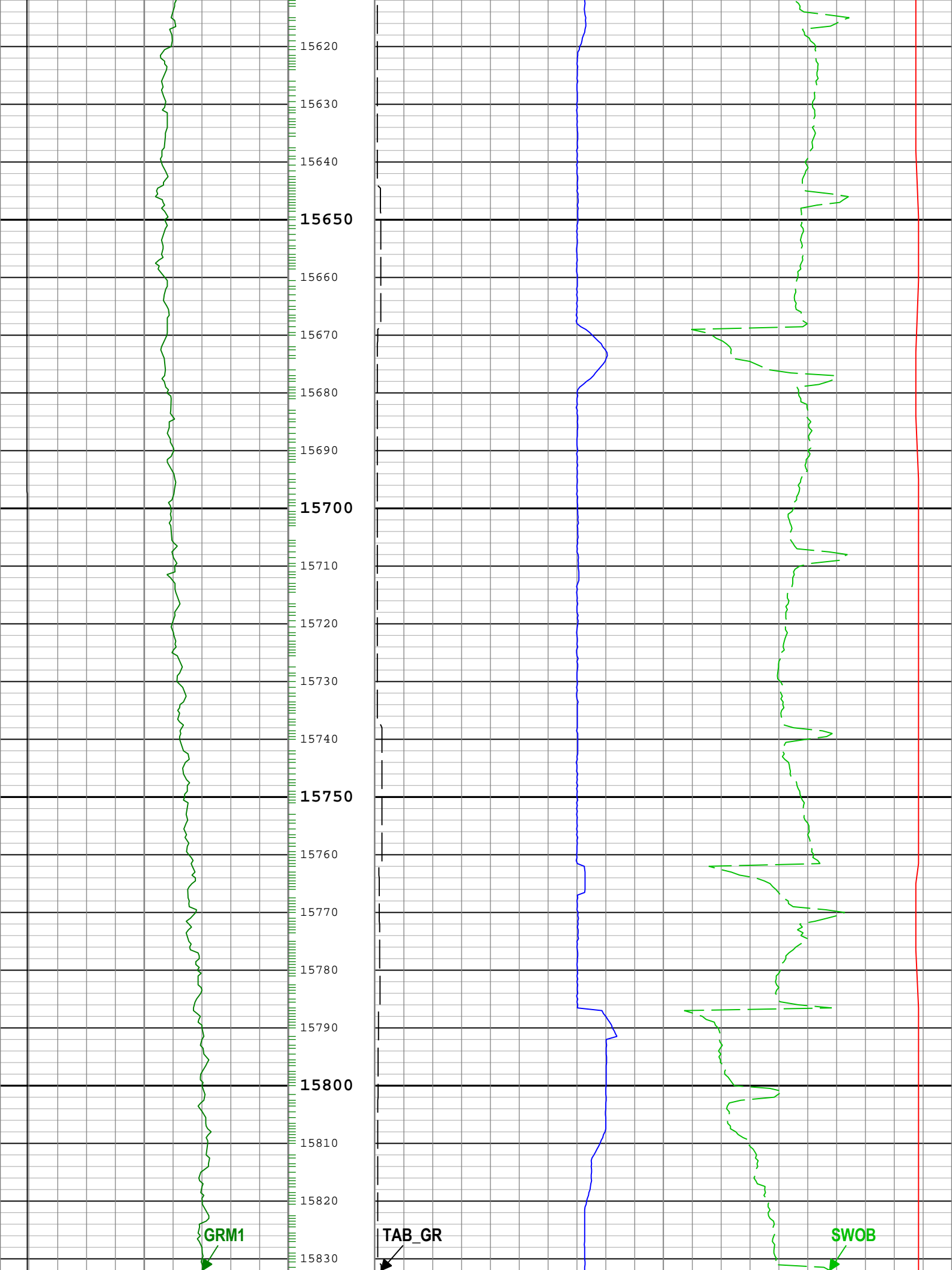


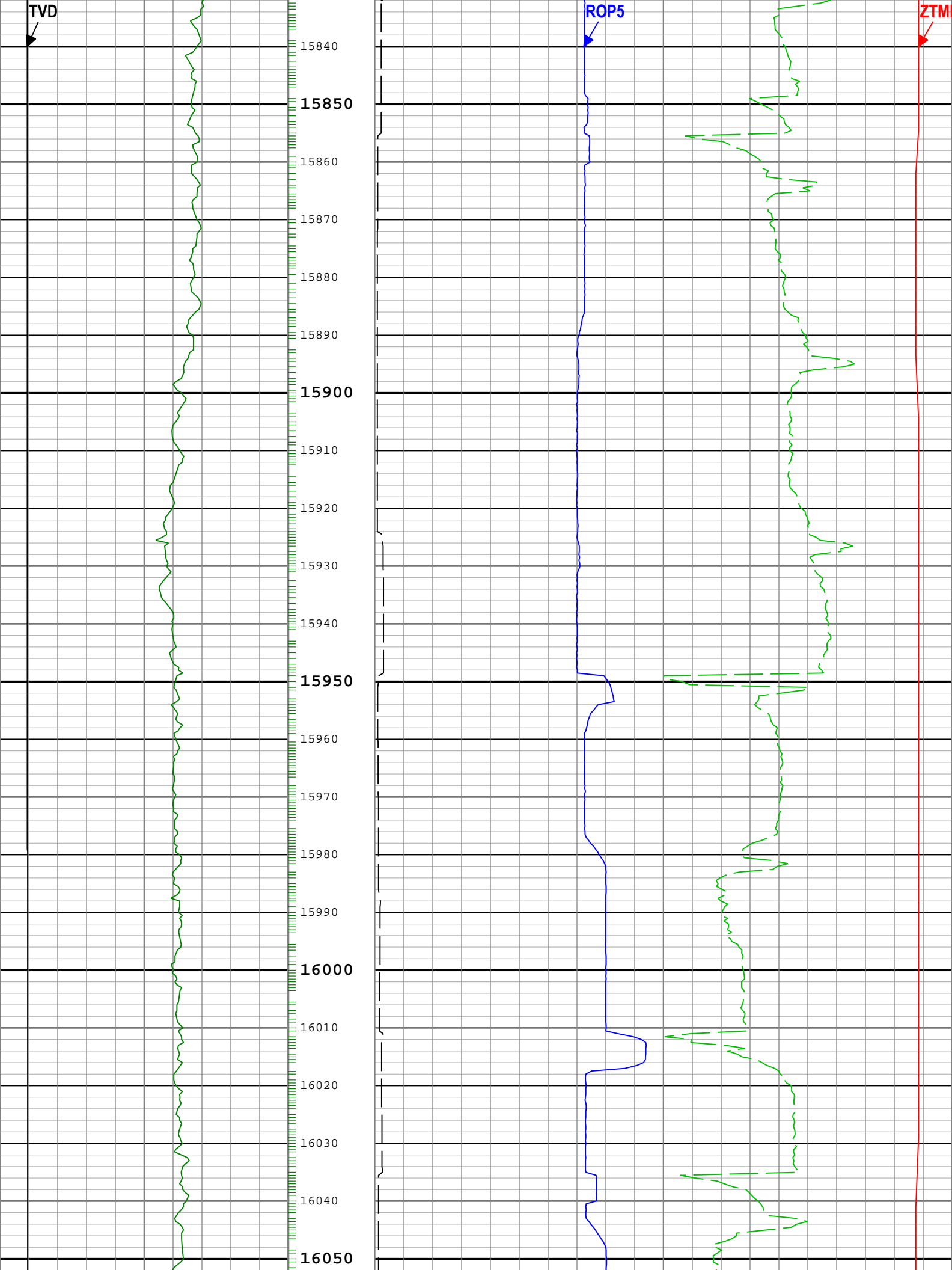


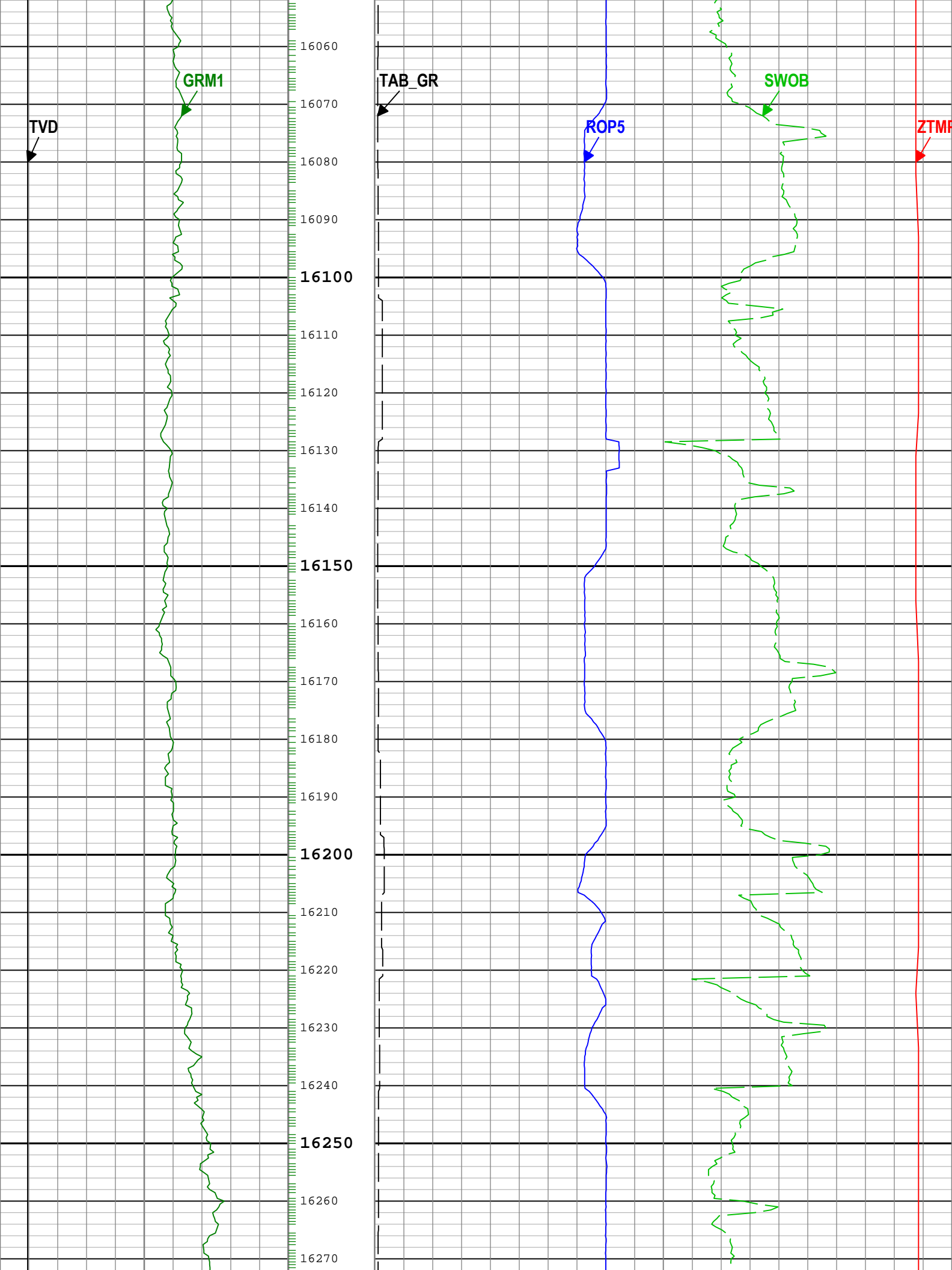


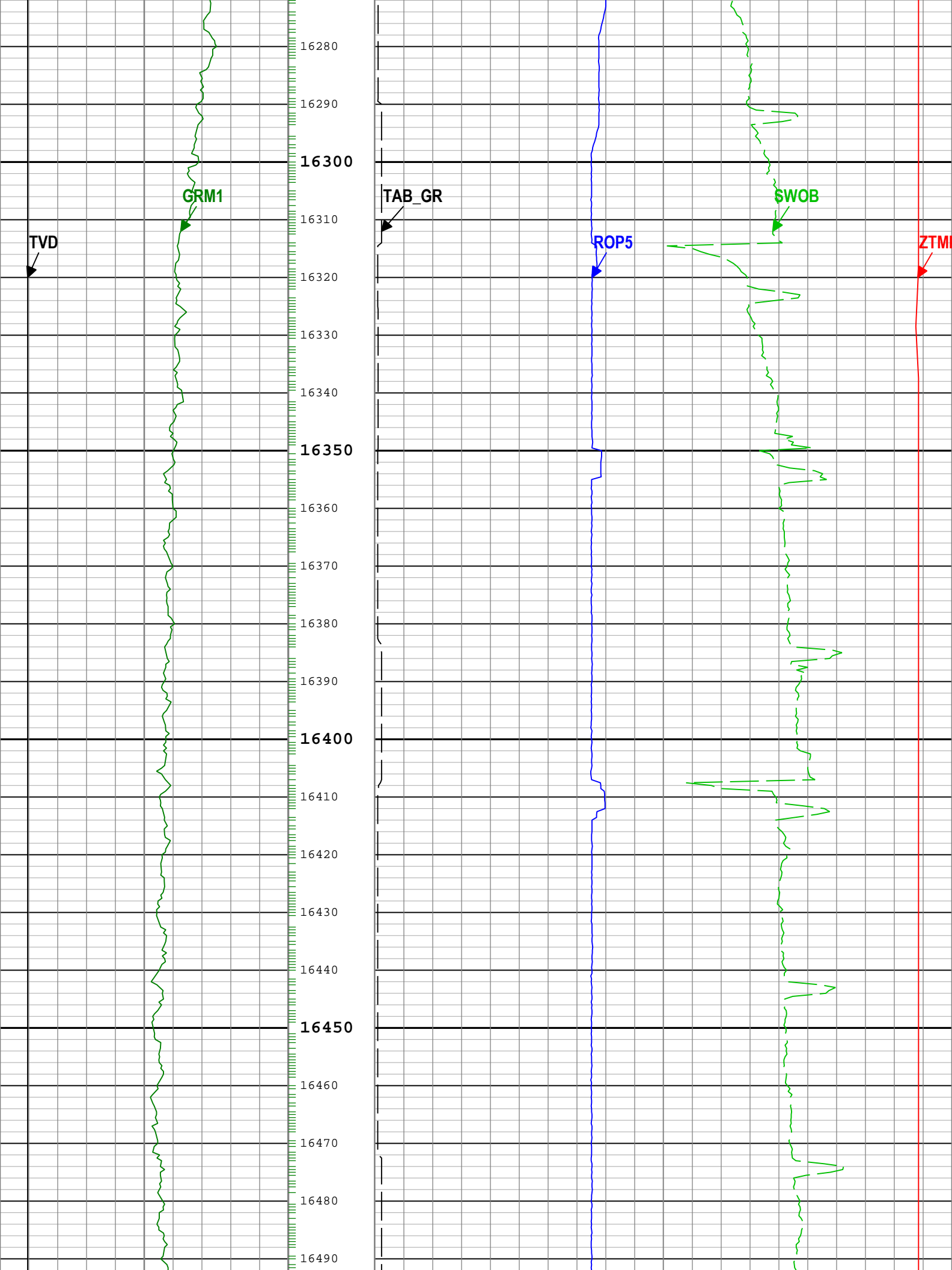


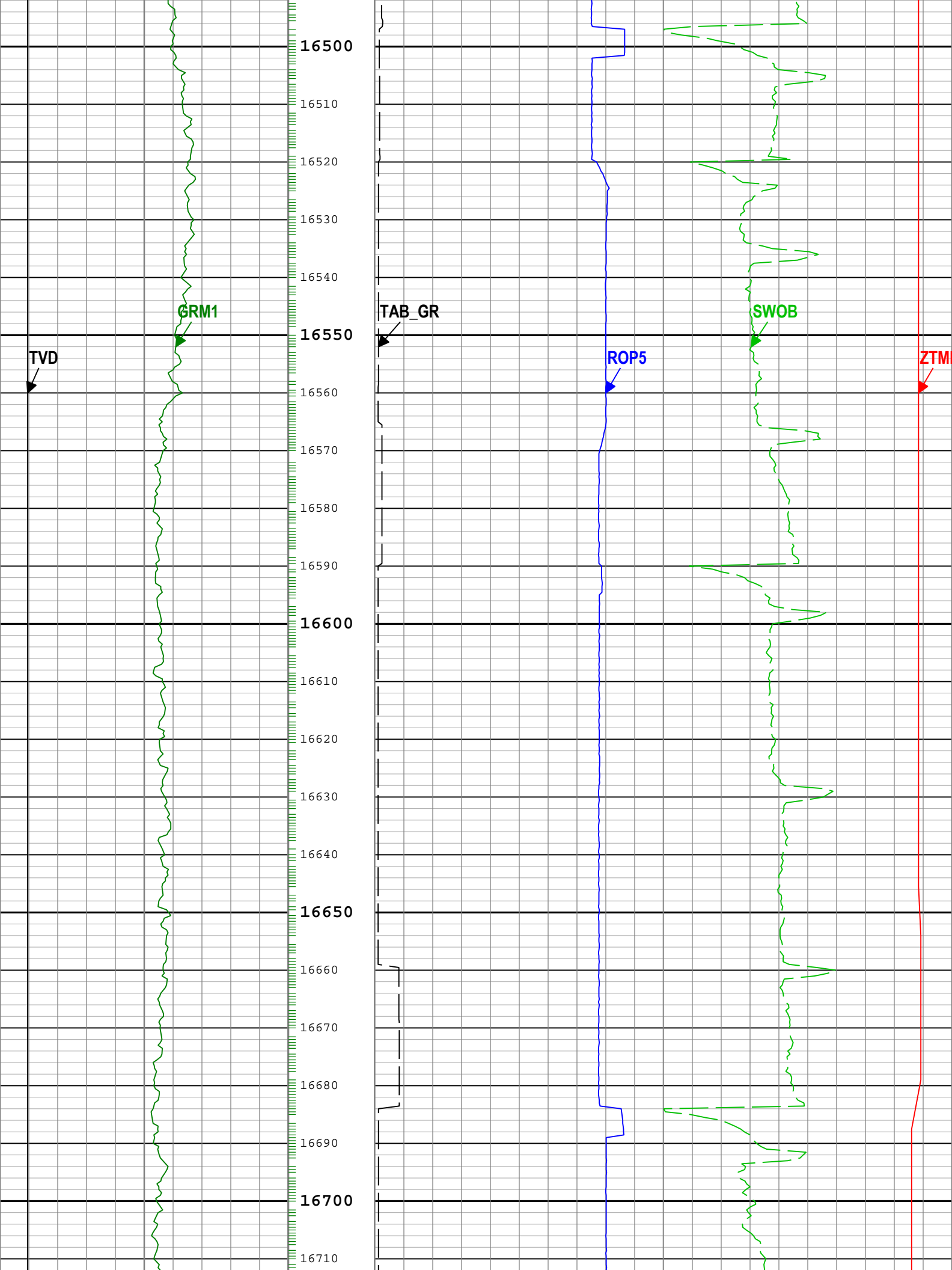


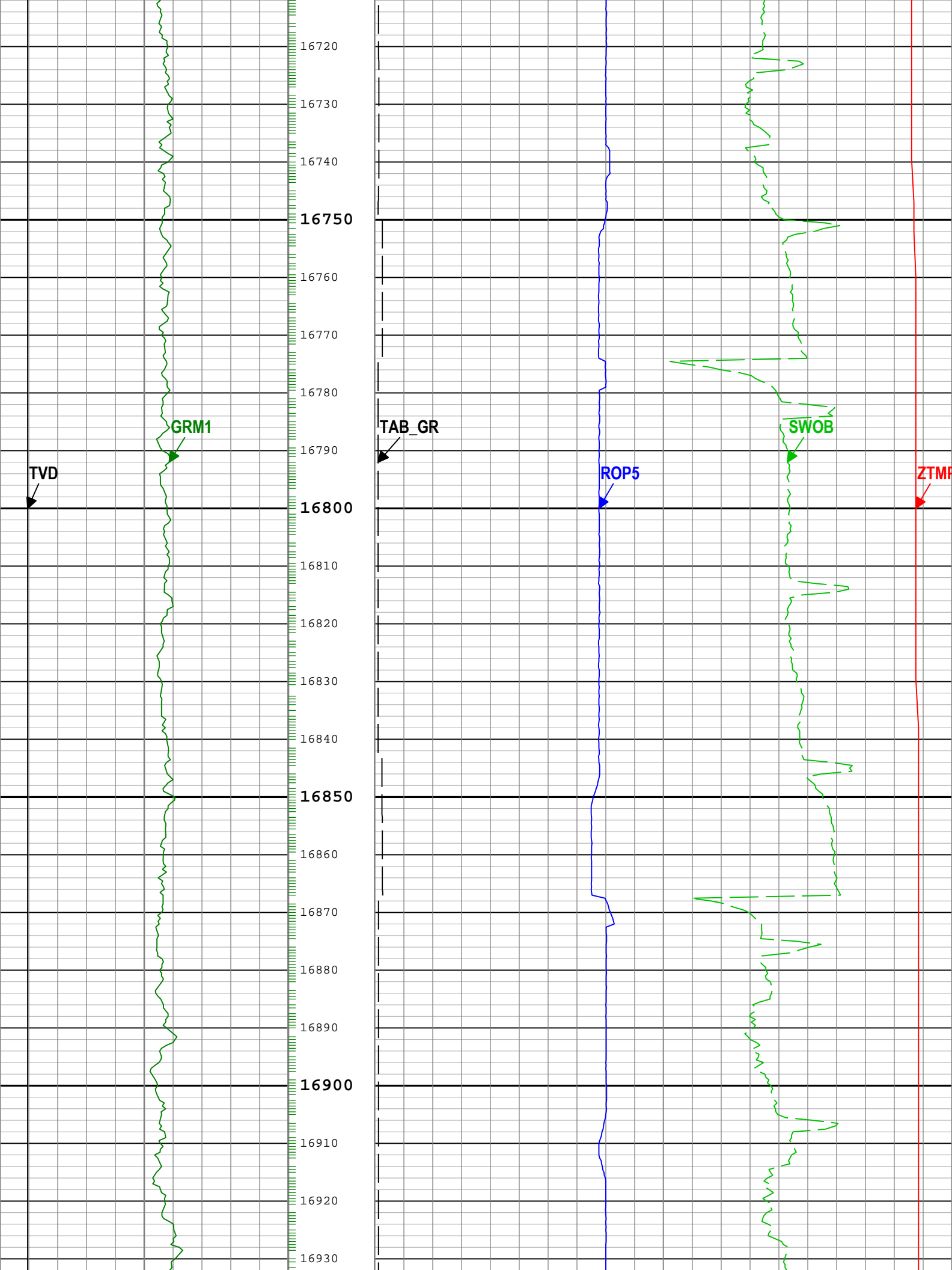


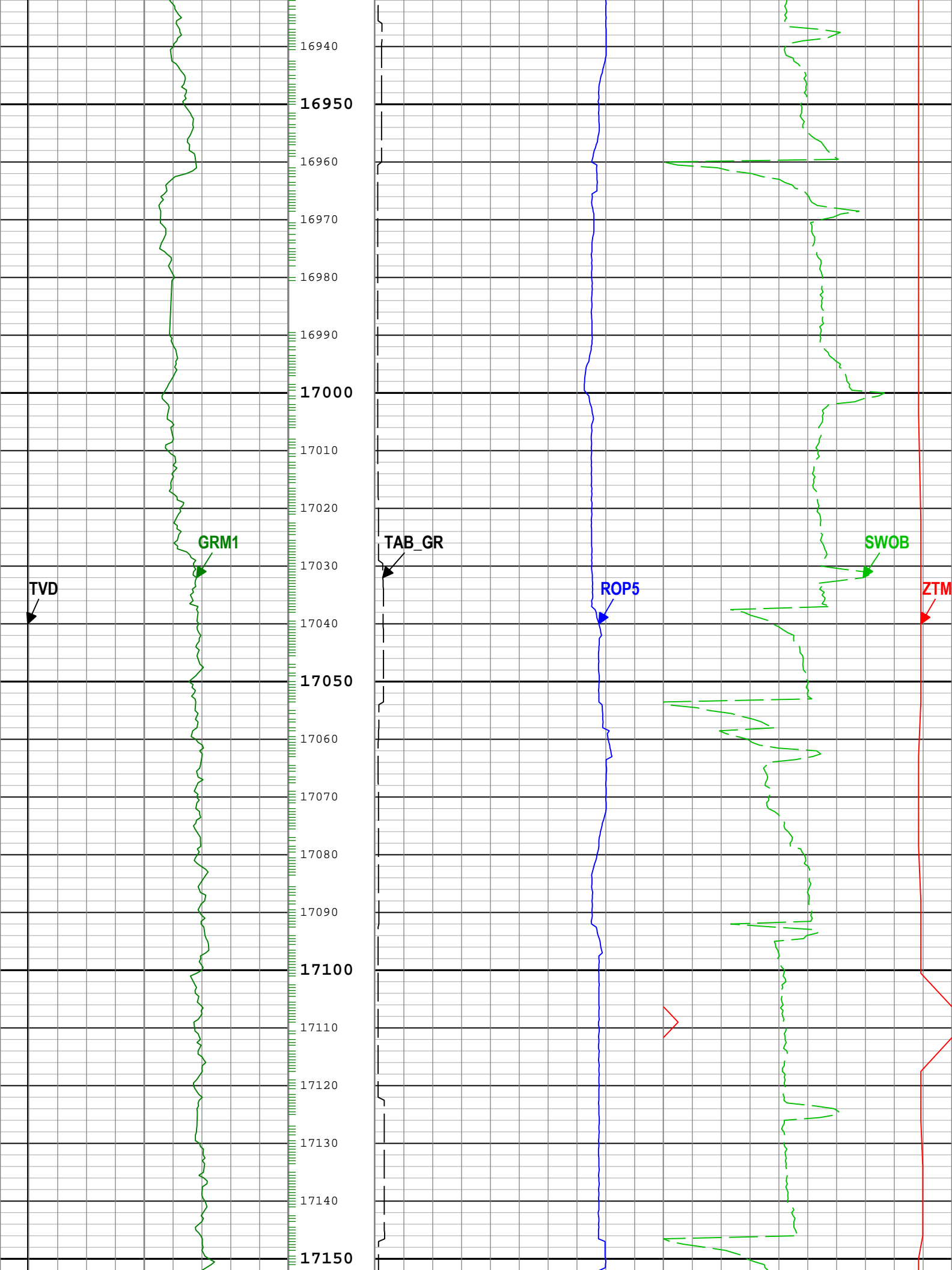


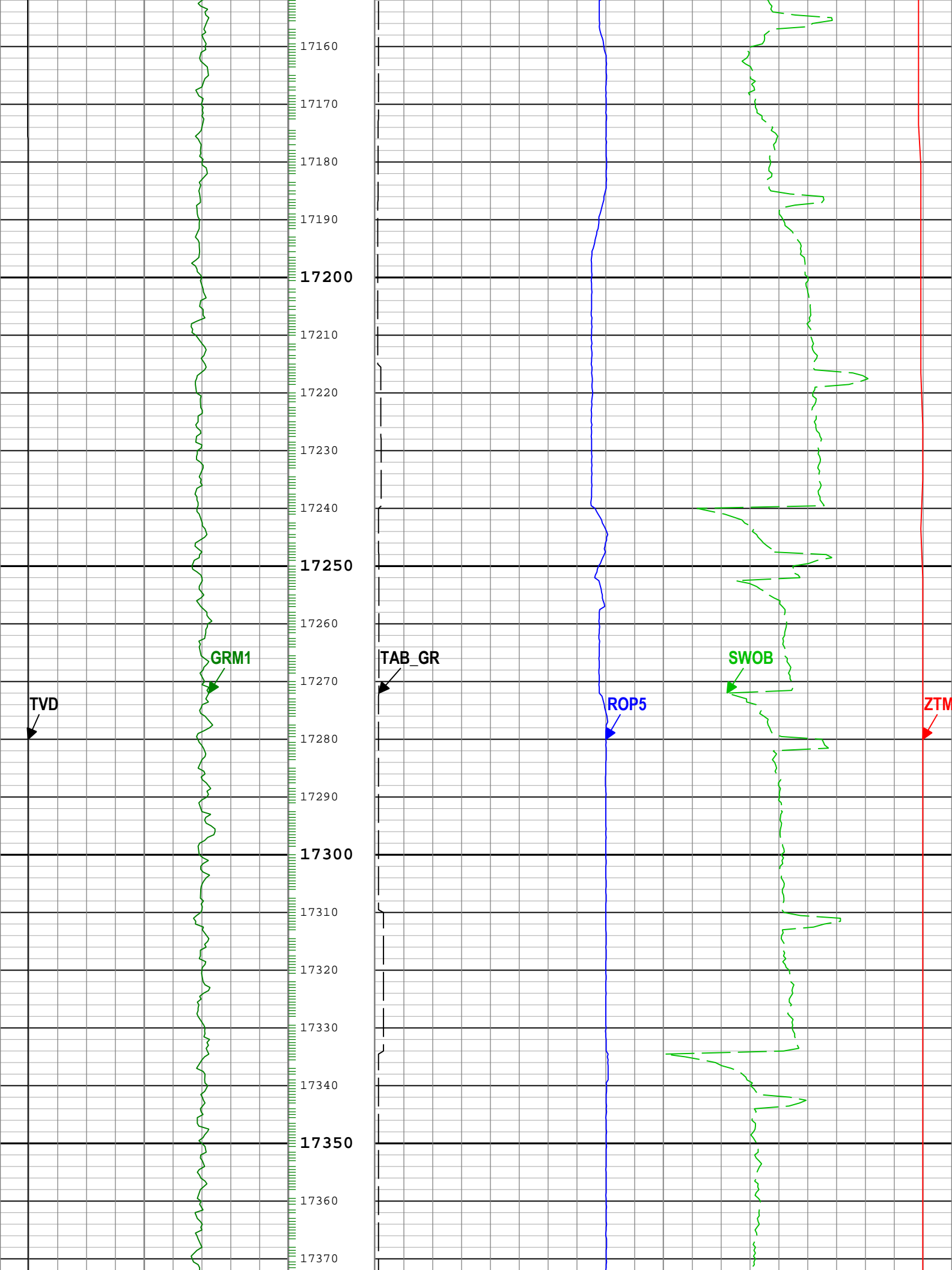


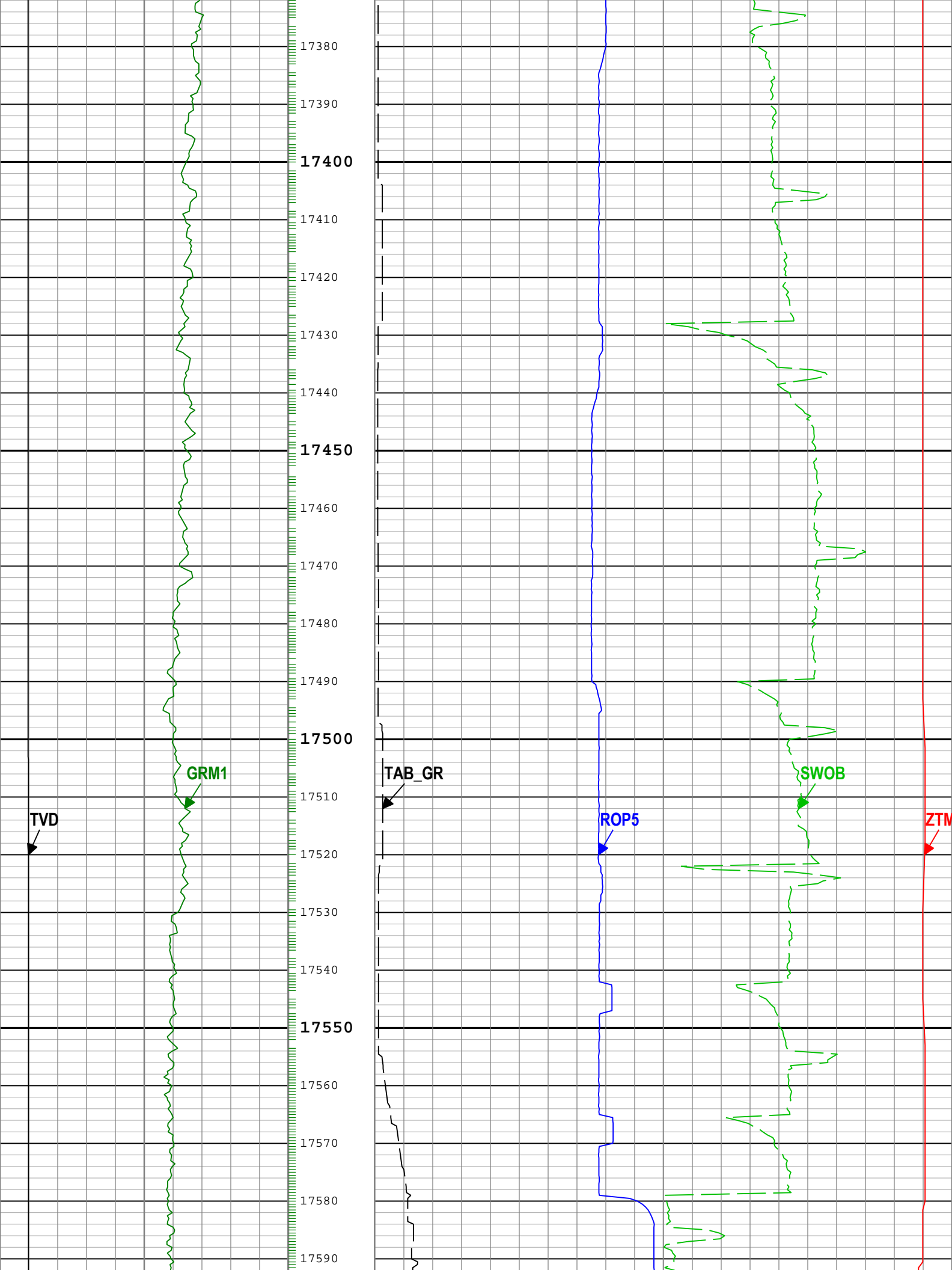


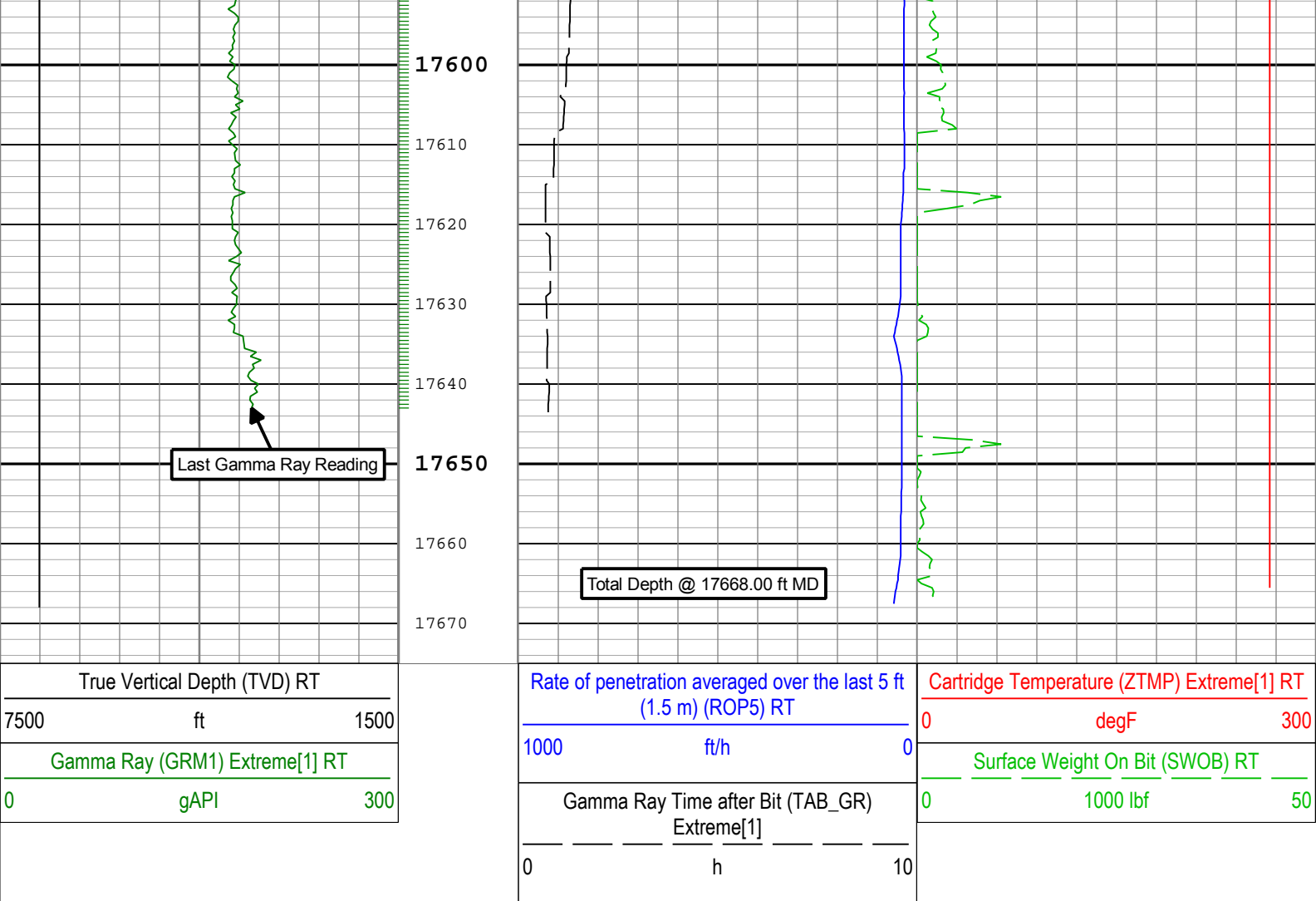












└ GRM1 - Gamma Ray Extreme[1] RT

Description: Extreme Gamma Ray 1 RT Format: Log (Extreme Gamma Ray 1 RT) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: Measured Depth
05-Sep-2019 15:09:26

Channel Processing Parameters				
Run001: Parameters				
Parameter	Description	Tool	Value	Unit
BS	Bit Size	DNMSESSION	Depth Zoned	in
DEPTH_SEL	Depth Selection Parameter	DNMSESSION	Driller's Depth	
DFD	Drilling Fluid Density	Borehole	9.9	lbm/gal
Run001Depth Zoned Parameters				
Parameter	Value	Start (ft)	Stop (ft)	
BS	12.25	1755	1786	
BS	8.5	1786	4461.5	
All depth are actual.				
Run002: Parameters				
Parameter	Description	Tool	Value	Unit
BS	Bit Size	DNMSESSION	8.5	in
DEPTH_SEL	Depth Selection Parameter	DNMSESSION	Driller's Depth	
DFD	Drilling Fluid Density	Borehole	10	lbm/gal
Run003: Parameters				
Parameter	Description	Tool	Value	Unit
BS	Bit Size	DNMSESSION	8.5	in

DEPTH_SEL	Depth Selection Parameter	DNMSESSION	Driller's Depth	
DFD	Drilling Fluid Density	Borehole	10.3	lbm/gal
Tool Control Parameters				
Run001: Parameters				
Parameter	Description	Tool	Value	Unit
Run002: Parameters				
Parameter	Description	Tool	Value	Unit
Run003: Parameters				
Parameter	Description	Tool	Value	Unit
Calibration Report				

Company: SRC Energy Inc

Well: Bost Farm 32N-11B-L

Field: Wattenberg

County: Weld

State: Colorado

Country: United States of America



XEM Gamma Ray
5in/100ft Measured Depth
Real Time, Composite Log